

Chemical: PHENOL
DIPPR Name: PHENOL
CAS No.: 108-95-2
Formula: C₆H₆O
Family: AROMATIC ALCOHOLS

T-Dep Datasets

UNITS: SI

NOTE: If text in the scroll boxes below appears greyed out or column headings do not line up, please zoom-in by adjusting your browsers zoom setting.

Dataset	Property	Units	Status	T-Range		Type
74344	Heat of Vaporization	J/kmol	A	314.06	694.25	Standard
75633	Heat of Vaporization	J/kmol	R	NA	NA	Standard
76207	Heat of Vaporization	J/kmol	A	314.06	694.25	Standard
76208	Heat of Vaporization	J/kmol	N	NA	NA	Standard
93791	Heat of Vaporization	J/kmol	N	NA	NA	Standard

Display Selected T-Dep Dataset

Fig. 1: DIPPR T-Dependent Dataset for the Heat of Vaporization of Phenol in standard units. Experimental Datasets provide data which are rated "A", "N", or "R" (accepted, not-accepted or rejected).

DIPPR/EHS Online is an advanced software tool that provides easy Internet access to regularly updated quality-assured data: critically evaluated physical property data from the American Institute of Chemical Engineers (AIChE) and environmental, health and safety (EHS) data from USEPA sources. With its cutting-edge Web technology, DIPPR/EHS is unprecedented for ease of use when performing calculations, retrieving references and quality assessments and, for generating customized tables and plots.

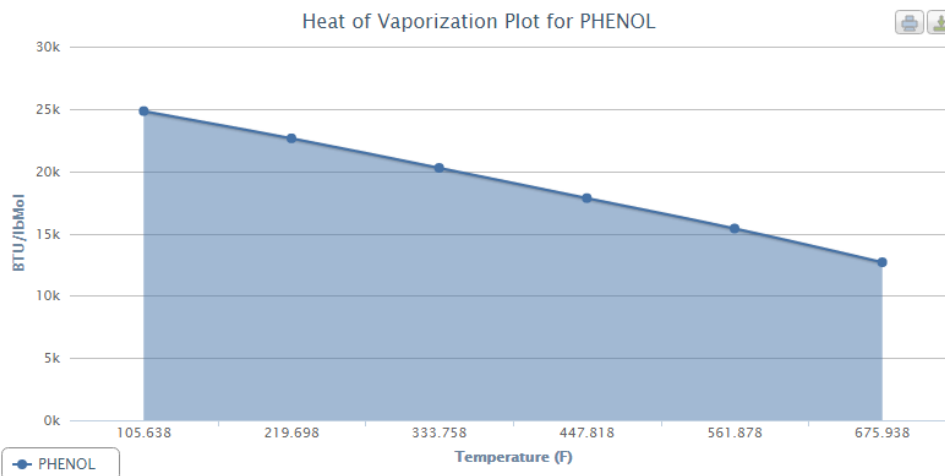


Fig. 2: Individual data points and their extrapolated values for the Heat of Vaporization of Phenol plotted in British units

DIPPR/EHS Online provides an efficient and cost-effective route to quality-assured data: 33 constants, 15 temperature-dependent properties and over 35 EHS data types for more than 2000 industrial chemicals. Retrieved data can be automatically output to a spreadsheet. Its unique web-based design provides access from most any internet browser.

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EHS Results

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Property	Units
LD50 Oral Mouse	270 mg/kg
Definition: LD50 oral mouse values (mg/kg) - oral concentration in mg chemical/kg body weight that causes half of mice to die	
LD50 Oral Mouse sign	Not Given >/<
LD50 Oral Mouse source	NLM
Definition: LD50 oral mouse source information a. NLM = National Library of Medicine	
LD50 Oral Rat	423.5 mg/kg
Definition: Oral rat LD50 in mg/kg - contain both measured and estimated values.	
LD50 Oral Rat notes	Not Given
LD50 Oral Rat source	H, N
Definition: Rat LD50 source information - a. C = Class specific correlation (estimation) b. EC = ECDIN c. H = HSD8 d. HC = Hierarchical Clustering Method described in Martin et al. (2008) e. N = NTP f. NLM = National Library of Medicine g. R = RTECS h. S = S ax's; i. Smyth	

Download Data(XLS)

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Fig. 3: EHS Toxicity Data showing values, notes and source references for Phenol.

Join the process, safety, and environmental engineers information specialists and professionals worldwide who use DIPPR/EHS in a wide range of applications: process design and simulation, equipment design, safety and, environmental effects, risk assessment and regulatory compliance.

DIPPR®/EHS™ PROGRAM FEATURES:

- Convenient access to DIPPR physical properties and EHS data from almost any geographic location
- One (1) Username provides access to an entire site. No installation or network configuration required
- Rapid retrieval of DIPPR physical properties and toxicity, air quality, exposure, safety and regulatory information from the USEPA sources
- Tables and plots of temperature-dependent data are easily customized
- Simultaneous searching by multiple chemical names and physical properties
- Simplified units conversion
- Retrieved data is easily output to MS-Excel spreadsheets or MS-Word documents
- Tested for compatibility with Google Chrome, Internet Explorer, Mozilla Firefox, Apple Safari and other web browsers

Physical properties and safety data from the American Institute of Chemical Engineers (AIChE) DIPPR Project 801. DIPPR/EHS programs provide rapid access to pure component data for over 2000 industrial chemicals. Information for each DIPPR chemical includes recommended values for 28 constants and 15 temperature-dependent properties. Data are accompanied by references, notes and percent error.

Environmental, Health and Safety (EHS) data from the US Environmental Protection Agency (EPA) sources. *DIPPR/EHS also includes 15 types of reliable EHS data to help users assess the regulatory status and the hazard potential of each DIPPR chemical.*

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