

# Phenanthrene, 3-methyl-d3-

<b>Inchi:</b>	InChI=1S/C15H12/c1-11-6-7-13-9-8-12-4-2-3-5-14(12)15(13)10-11/h2-10H,1H3/i1D3
<b>InchiKey:</b>	GKYWZUBZZBHZKU-FIBGUPNXSA-N
<b>Formula:</b>	C15H9D3
<b>SMILES:</b>	Cc1ccc2ccc3ccccc3c2c1
<b>Mol. weight [g/mol]:</b>	195.27

## Physical Properties

Property code	Value	Unit	Source
gf	381.87	kJ/mol	Joback Method
hf	242.80	kJ/mol	Joback Method
hfus	21.91	kJ/mol	Joback Method
hvap	55.86	kJ/mol	Joback Method
log10ws	-5.56		Crippen Method
logp	4.301		Crippen Method
mcvol	159.530	ml/mol	McGowan Method
pc	2868.87	kPa	Joback Method
tb	617.20	K	Joback Method
tc	866.35	K	Joback Method
tf	375.67	K	Joback Method
vc	0.612	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.22	J/molxK	617.20	Joback Method
cpg	396.50	J/molxK	658.73	Joback Method
cpg	410.54	J/molxK	700.25	Joback Method
cpg	423.46	J/molxK	741.78	Joback Method
cpg	435.41	J/molxK	783.30	Joback Method
cpg	446.52	J/molxK	824.83	Joback Method
cpg	456.90	J/molxK	866.35	Joback Method
dvisc	0.0013574	Paxs	375.67	Joback Method
dvisc	0.0010334	Paxs	415.93	Joback Method
dvisc	0.0008255	Paxs	456.18	Joback Method

dvisc	0.0006839	Paxs	496.44	Joback Method
dvisc	0.0005828	Paxs	536.69	Joback Method
dvisc	0.0005079	Paxs	576.95	Joback Method
dvisc	0.0004506	Paxs	617.20	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=B6004261&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6004261&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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