

Naphthalene, 1,2-dihydro-4-methyl-

Other names:	1,2-dihydro-4-methylnaphthalene
Inchi:	InChI=1S/C11H12/c1-9-5-4-7-10-6-2-3-8-11(9)10/h2-3,5-6,8H,4,7H2,1H3
InchiKey:	NACZXFJTTCJDJR-UHFFFAOYSA-N
Formula:	C11H12
SMILES:	CC1=CCc2ccccc21
Mol. weight [g/mol]:	144.21
CAS:	4373-13-1

Physical Properties

Property code	Value	Unit	Source
gf	221.21	kJ/mol	Joback Method
hf	87.98	kJ/mol	Joback Method
hfus	13.69	kJ/mol	Joback Method
hvap	44.37	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	3.036		Crippen Method
mcvol	126.930	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
tb	502.56	K	Joback Method
tc	734.79	K	Joback Method
tf	284.61	K	Joback Method
vc	0.479	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.10	J/molxK	502.56	Joback Method
cpg	337.25	J/molxK	696.09	Joback Method
cpg	325.55	J/molxK	657.38	Joback Method
cpg	312.95	J/molxK	618.68	Joback Method
cpg	299.39	J/molxK	579.97	Joback Method
cpg	284.80	J/molxK	541.27	Joback Method
cpg	348.12	J/molxK	734.79	Joback Method
dvisc	0.0003103	Paxs	502.56	Joback Method

dvisc	0.0003695	Paxs	466.24	Joback Method
dvisc	0.0004532	Paxs	429.91	Joback Method
dvisc	0.0005772	Paxs	393.59	Joback Method
dvisc	0.0007721	Paxs	357.26	Joback Method
dvisc	0.0011033	Paxs	320.94	Joback Method
dvisc	0.0017269	Paxs	284.61	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4373131&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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

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