

2-Methoxy-1-methyl-1,4-dihydronaphthalene

Inchi:	InChI=1S/C12H14O/c1-9-11-6-4-3-5-10(11)7-8-12(9)13-2/h3-6,8-9H,7H2,1-2H3
InchiKey:	WXAZRRVLJDGHLJ-UHFFFAOYSA-N
Formula:	C12H14O
SMILES:	COC1=CCc2ccccc2C1C
Mol. weight [g/mol]:	174.24
CAS:	78812-93-8

Physical Properties

Property code	Value	Unit	Source
gf	116.92	kJ/mol	Joback Method
hf	-85.22	kJ/mol	Joback Method
hfus	18.54	kJ/mol	Joback Method
hvap	48.69	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.877		Crippen Method
mcvol	146.890	ml/mol	McGowan Method
pc	2784.72	kPa	Joback Method
tb	543.19	K	Joback Method
tc	768.32	K	Joback Method
tf	313.87	K	Joback Method
vc	0.552	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	340.62	J/molxK	543.19	Joback Method
cpg	357.13	J/molxK	580.71	Joback Method
cpg	372.63	J/molxK	618.23	Joback Method
cpg	387.17	J/molxK	655.76	Joback Method
cpg	400.79	J/molxK	693.28	Joback Method
cpg	413.52	J/molxK	730.80	Joback Method
cpg	425.41	J/molxK	768.32	Joback Method
dvisc	0.0012340	Paxs	313.87	Joback Method
dvisc	0.0008450	Paxs	352.09	Joback Method

dvisc	0.0006231	Paxs	390.31	Joback Method
dvisc	0.0004852	Paxs	428.53	Joback Method
dvisc	0.0003936	Paxs	466.75	Joback Method
dvisc	0.0003295	Paxs	504.97	Joback Method
dvisc	0.0002829	Paxs	543.19	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C78812938&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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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