Naphthalene, 1,2,3,4-tetrahydro-6-methoxy-

Other names:	1,2,3,4-Tetrahydro-6-methoxynaphthalene
	6-Methoxytetralin
	6-Methoxy-1,2,3,4-tetrahydronaphthalene
	methyl 1,2,3,4-tetrahydro-6-naphthyl ether
Inchi:	InChI=1S/C11H14O/c1-12-11-7-6-9-4-2-3-5-10(9)8-11/h6-8H,2-5H2,1H3
InchiKey:	SUFDFKRJYKNTFH-UHFFFAOYSA-N
Formula:	C11H14O
SMILES:	COc1ccc2c(c1)CCCC2
Mol. weight [g/mol]:	162.23
CAS:	1730-48-9

Physical Properties

Property code	Value	Unit	Source
gf	86.25	kJ/mol	Joback Method
hf	-102.02	kJ/mol	Joback Method
hfus	13.66	kJ/mol	Joback Method
hvap	46.48	kJ/mol	Joback Method
log10ws	-3.09		Crippen Method
logp	2.574		Crippen Method
mcvol	137.100	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
tb	525.82	K	Joback Method
tc	752.89	K	Joback Method
tf	306.08	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.20	J/mol×K	525.82	Joback Method
cpg	383.93	J/mol×K	715.05	Joback Method
cpg	371.24	J/mol×K	677.20	Joback Method
cpg	357.67	J/mol×K	639.36	Joback Method
cpg	343.17	J/mol×K	601.51	Joback Method

cpg	327.69	J/mol×K	563.67	Joback Method
cpg	395.77	J/mol×K	752.89	Joback Method
dvisc	0.0002684	Pa×s	525.82	Joback Method
dvisc	0.0003250	Pa×s	489.20	Joback Method
dvisc	0.0004059	Pa×s	452.57	Joback Method
dvisc	0.0005273	Pa×s	415.95	Joback Method
dvisc	0.0007204	Pa×s	379.33	Joback Method
dvisc	0.0010520	Pa×s	342.70	Joback Method
dvisc	0.0016822	Pa×s	306.08	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	365.70	K	0.10	NIST Webbook

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1730489&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume