

Naphthalene, 1-methoxy-

Other names:	«alpha»-Methoxynaphthalene Methyl 1-naphthyl ether 1-Methoxynaphthalene «alpha»-Naphthyl methyl ether 1-Naphthyl methyl ether 1-Naphthol methyl ether
Inchi:	InChI=1S/C11H10O/c1-12-11-8-4-6-9-5-2-3-7-10(9)11/h2-8H,1H3
InchiKey:	NQMUGNMMFTYOHK-UHFFFAOYSA-N
Formula:	C11H10O
SMILES:	<chem>COc1cccc2ccccc12</chem>
Mol. weight [g/mol]:	158.20
CAS:	2216-69-5

Physical Properties

Property code	Value	Unit	Source
gf	146.17	kJ/mol	Joback Method
hf	13.54	kJ/mol	Joback Method
hfus	16.11	kJ/mol	Joback Method
hvap	47.07	kJ/mol	Joback Method
ie	7.72	eV	NIST Webbook
ie	7.70	eV	NIST Webbook
log10ws	-3.40		Crippen Method
logp	2.848		Crippen Method
mcvol	128.500	ml/mol	McGowan Method
pc	3341.24	kPa	Joback Method
rinpol	1403.00		NIST Webbook
rinpol	1434.00		NIST Webbook
ripol	2143.00		NIST Webbook
ripol	2135.00		NIST Webbook
tb	524.14	K	Joback Method
tc	755.90	K	Joback Method
tf	307.60	K	Joback Method
vc	0.483	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.50	J/molxK	524.14	Joback Method
cpg	289.40	J/molxK	562.77	Joback Method
cpg	302.36	J/molxK	601.39	Joback Method
cpg	314.42	J/molxK	640.02	Joback Method
cpg	325.64	J/molxK	678.65	Joback Method
cpg	336.06	J/molxK	717.28	Joback Method
cpg	345.74	J/molxK	755.90	Joback Method
dvisc	0.0012644	Paxs	307.60	Joback Method
dvisc	0.0008530	Paxs	343.69	Joback Method
dvisc	0.0006202	Paxs	379.78	Joback Method
dvisc	0.0004766	Paxs	415.87	Joback Method
dvisc	0.0003819	Paxs	451.96	Joback Method
dvisc	0.0003163	Paxs	488.05	Joback Method
dvisc	0.0002688	Paxs	524.14	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	409.20	K	1.60	NIST Webbook

Sources

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2216695&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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