

Naphthalene, 1-ethoxy-

Other names:	«alpha»-Ethoxynaphthalene Ethyl «alpha»-naphthyl ether Ethyl 1-naphthyl ether 1-Ethoxynaphthalene
Inchi:	InChI=1S/C12H12O/c1-2-13-12-9-5-7-10-6-3-4-8-11(10)12/h3-9H,2H2,1H3
InchiKey:	APWZAIZNWQFZBK-UHFFFAOYSA-N
Formula:	C12H12O
SMILES:	CCOc1cccc2ccccc12
Mol. weight [g/mol]:	172.22
CAS:	5328-01-8

Physical Properties

Property code	Value	Unit	Source
gf	154.59	kJ/mol	Joback Method
hf	-7.10	kJ/mol	Joback Method
hfus	18.70	kJ/mol	Joback Method
hvap	49.29	kJ/mol	Joback Method
log10ws	-3.81		Crippen Method
logp	3.239		Crippen Method
mcvol	142.590	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
tb	553.70	K	NIST Webbook
tb	552.95 ± 1.00	K	NIST Webbook
tc	774.47	K	Joback Method
tf	318.87	K	Joback Method
vc	0.539	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.58	J/mol×K	547.02	Joback Method
cpg	385.29	J/mol×K	736.56	Joback Method
cpg	374.10	J/mol×K	698.65	Joback Method
cpg	362.08	J/mol×K	660.74	Joback Method

cpg	349.19	J/molxK	622.84	Joback Method
cpg	335.37	J/molxK	584.93	Joback Method
cpg	395.71	J/molxK	774.47	Joback Method
dvisc	0.0002598	Paxs	547.02	Joback Method
dvisc	0.0003081	Paxs	509.00	Joback Method
dvisc	0.0003755	Paxs	470.97	Joback Method
dvisc	0.0004738	Paxs	432.94	Joback Method
dvisc	0.0006252	Paxs	394.92	Joback Method
dvisc	0.0008752	Paxs	356.89	Joback Method
dvisc	0.0013276	Paxs	318.87	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5328018&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

Latest version available from:

<https://www.chemeo.com/cid/79-508-1/Naphthalene-1-ethoxy.pdf>

Generated by Cheméo on 2024-04-18 09:50:15.578215645 +0000 UTC m=+15723064.498792960.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.