Naphthalene, 2-ethoxy-

Other names:	«beta»-Naphthol ethyl ether
	«beta»-Naphthyl ethyl ether
	Bromelia (compound)
	Ethyl «beta»-naphtholate
	Ethyl «beta»-naphthyl ether
	Nerolin
	Nerolin new
	Nerolin II
	2-Ethoxynaphthalene
	Ethyl 2-naphthyl ether
	«beta»-Ethoxynaphthalene
	Bromelia
	Neroline
	2-Naphthol ethyl ether
	NSC 1319
Inchi:	InChI=1S/C12H12O/c1-2-13-12-8-7-10-5-3-4-6-11(10)9-12/h3-9H,2H2,1H3
InchiKey:	GUMOJENFFHZAFP-UHFFFAOYSA-N
Formula:	C12H12O
SMILES:	CCOc1ccc2ccccc2c1
Mol. weight [g/mol]:	172.22
CAS:	93-18-5

Physical Properties

Property code	Value	Unit	Source
chs	-6303.10 ± 1.30	kJ/mol	NIST Webbook
gf	154.59	kJ/mol	Joback Method
hf	-7.10	kJ/mol	Joback Method
hfs	-134.00 ± 2.00	kJ/mol	NIST Webbook
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
rinpol	1520.00		NIST Webbook
tb	555.20	K	NIST Webbook
tb	555.15 ± 1.00	K	NIST Webbook

tc	774.47	K	Joback Method
tf	318.87	K	Joback Method
vc	0.539	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.58	J/mol×K	547.02	Joback Method
cpg	335.37	J/mol×K	584.93	Joback Method
cpg	349.19	J/mol×K	622.84	Joback Method
cpg	362.08	J/mol×K	660.74	Joback Method
cpg	374.10	J/mol×K	698.65	Joback Method
cpg	385.29	J/mol×K	736.56	Joback Method
cpg	395.71	J/mol×K	774.47	Joback Method
dvisc	0.0013276	Pa×s	318.87	Joback Method
dvisc	0.0008752	Pa×s	356.89	Joback Method
dvisc	0.0006252	Pa×s	394.92	Joback Method
dvisc	0.0004738	Pa×s	432.94	Joback Method
dvisc	0.0003755	Pa×s	470.97	Joback Method
dvisc	0.0003081	Pa×s	509.00	Joback Method
dvisc	0.0002598	Pa×s	547.02	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C93185&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

chs: Standard solid enthalpy of combustion
cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity

gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume