

1-Naphthaleneethanol

Other names:	2-(1-Naphthyl)ethanol 2-(«alpha»-Naphthyl)ethanol naphthalen-1-ethanol
Inchi:	InChI=1S/C12H12O/c13-9-8-11-6-3-5-10-4-1-2-7-12(10)11/h1-7,13H,8-9H2
InchiKey:	RXWNCMHRJCOWDK-UHFFFAOYSA-N
Formula:	C12H12O
SMILES:	OCCc1cccc2ccccc12
Mol. weight [g/mol]:	172.22
CAS:	773-99-9

Physical Properties

Property code	Value	Unit	Source
gf	122.77	kJ/mol	Joback Method
hf	-27.11	kJ/mol	Joback Method
hfus	21.60	kJ/mol	Joback Method
hvap	63.56	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	2.375		Crippen Method
mcvol	142.590	ml/mol	McGowan Method
pc	3392.03	kPa	Joback Method
tb	616.78	K	Joback Method
tc	829.29	K	Joback Method
tf	357.46	K	Joback Method
vc	0.540	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.14	J/molxK	616.78	Joback Method
cpg	360.20	J/molxK	652.20	Joback Method
cpg	371.45	J/molxK	687.62	Joback Method
cpg	381.94	J/molxK	723.04	Joback Method
cpg	391.74	J/molxK	758.45	Joback Method
cpg	400.90	J/molxK	793.87	Joback Method

cpg	409.50	J/molxK	829.29	Joback Method
dvisc	0.0032519	Paxs	357.46	Joback Method
dvisc	0.0013783	Paxs	400.68	Joback Method
dvisc	0.0006905	Paxs	443.90	Joback Method
dvisc	0.0003911	Paxs	487.12	Joback Method
dvisc	0.0002430	Paxs	530.34	Joback Method
dvisc	0.0001622	Paxs	573.56	Joback Method
dvisc	0.0001146	Paxs	616.78	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	459.20	K	2.30	NIST Webbook
tbrp	465.50 ± 2.50	K	2.70	NIST Webbook

Sources

McGowan Method:

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

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C773999&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
mvol:	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

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