

2-Naphthaleneethanol

Other names:	naphthalen-2-ethanol
Inchi:	InChI=1S/C12H12O/c13-8-7-10-5-6-11-3-1-2-4-12(11)9-10/h1-6,9,13H,7-8H2
InchiKey:	VCZANYLMPFRUHG-UHFFFAOYSA-N
Formula:	C12H12O
SMILES:	OCCc1ccc2ccccc2c1
Mol. weight [g/mol]:	172.22
CAS:	1485-07-0

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	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.14	J/mol×K	616.78	Joback Method
cpg	360.20	J/mol×K	652.20	Joback Method
cpg	371.45	J/mol×K	687.62	Joback Method
cpg	381.94	J/mol×K	723.04	Joback Method
cpg	391.74	J/mol×K	758.45	Joback Method
cpg	400.90	J/mol×K	793.87	Joback Method
cpg	409.50	J/mol×K	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	455.20	K	2.00	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1485070&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

Latest version available from:

<https://www.chemeo.com/cid/50-993-4/2-Naphthaleneethanol.pdf>

Generated by Cheméo on 2024-04-27 21:21:22.568185983 +0000 UTC m=+16542131.488763305.

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