«alpha»-Methyl-2-naphthalenemethanol

Other names:	1-(2-Naphthyl)ethanol
	Methyl 2-naphtylcarbinol
	«beta»-Naphthyl methyl carbinol
	2-Naphthalenemethanol, «alpha»-methyl-
	1-(Naphthalen-2-yl)ethanol
	«alpha»-methylnaphthalene-2-methanol
Inchi:	InChI=1S/C12H12O/c1-9(13)11-7-6-10-4-2-3-5-12(10)8-11/h2-9,13H,1H3
InchiKey:	AXRKCRWZRKETCK-UHFFFAOYSA-N
Formula:	C12H12O
SMILES:	CC(O)c1ccc2ccccc2c1
Mol. weight [g/mol]:	172.22
CAS:	7228-47-9

Physical Properties

Property code	Value	Unit	Source
gf	120.33	kJ/mol	Joback Method
hf	-32.39	kJ/mol	Joback Method
hfus	18.07	kJ/mol	Joback Method
hvap	63.17	kJ/mol	Joback Method
log10ws	-3.80		Crippen Method
logp	2.893		Crippen Method
mcvol	142.590	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
tb	616.34	K	Joback Method
tc	833.18	K	Joback Method
tf	342.46	K	Joback Method
vc	0.534	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.62	J/mol×K	616.34	Joback Method
cpg	360.97	J/mol×K	652.48	Joback Method
cpg	372.47	J/mol×K	688.62	Joback Method

cpg	383.17	J/mol×K	724.76	Joback Method
cpg	393.14	J/mol×K	760.90	Joback Method
cpg	402.45	J/mol×K	797.04	Joback Method
cpg	411.15	J/mol×K	833.18	Joback Method
dvisc	0.0045007	Pa×s	342.46	Joback Method
dvisc	0.0016725	Pa×s	388.11	Joback Method
dvisc	0.0007655	Pa×s	433.75	Joback Method
dvisc	0.0004066	Pa×s	479.40	Joback Method
dvisc	0.0002411	Pa×s	525.05	Joback Method
dvisc	0.0001554	Pa×s	570.69	Joback Method
dvisc	0.0001069	Pa×s	616.34	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7228479&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
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

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