

2-Naphthyl propionate

Other names:	2-Naphthalenol, propanoate
Inchi:	InChI=1S/C13H12O2/c1-2-13(14)15-12-8-7-10-5-3-4-6-11(10)9-12/h3-9H,2H2,1H3
InchiKey:	KVMXEPJRCAPKJL-UHFFFAOYSA-N
Formula:	C13H12O2
SMILES:	CCC(=O)Oc1ccc2ccccc2c1
Mol. weight [g/mol]:	200.23
CAS:	13080-43-8

Physical Properties

Property code	Value	Unit	Source
gf	34.09	kJ/mol	Joback Method
hf	-140.32	kJ/mol	Joback Method
hfus	22.88	kJ/mol	Joback Method
hvap	58.27	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.155		Crippen Method
mcvol	158.250	ml/mol	McGowan Method
pc	2893.62	kPa	Joback Method
tb	623.77	K	Joback Method
tc	854.32	K	Joback Method
tf	380.07	K	Joback Method
vc	0.602	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	384.57	J/mol×K	623.77	Joback Method
cpg	398.55	J/mol×K	662.20	Joback Method
cpg	411.55	J/mol×K	700.62	Joback Method
cpg	423.62	J/mol×K	739.05	Joback Method
cpg	434.81	J/mol×K	777.47	Joback Method
cpg	445.18	J/mol×K	815.90	Joback Method
cpg	454.78	J/mol×K	854.32	Joback Method
dvisc	0.0014189	Pa×s	380.07	Joback Method

dvisc	0.0009480	Pa×s	420.69	Joback Method
dvisc	0.0006800	Pa×s	461.30	Joback Method
dvisc	0.0005147	Pa×s	501.92	Joback Method
dvisc	0.0004062	Pa×s	542.54	Joback Method
dvisc	0.0003313	Pa×s	583.15	Joback Method
dvisc	0.0002775	Pa×s	623.77	Joback Method

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=C13080438&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
mccvol:	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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