

2-Chlorophenyl-1-naphthyl ketone

Inchi:	InChI=1S/C17H11ClO/c18-16-11-4-3-9-15(16)17(19)14-10-5-7-12-6-1-2-8-13(12)14/h1-1
InchiKey:	WYBLTMAVWDQIEG-UHFFFAOYSA-N
Formula:	C17H11ClO
SMILES:	O=C(c1ccccc1Cl)c1cccc2ccccc12
Mol. weight [g/mol]:	266.72
CAS:	180780-15-8

Physical Properties

Property code	Value	Unit	Source
gf	263.62	kJ/mol	Joback Method
hf	118.66	kJ/mol	Joback Method
hfus	29.91	kJ/mol	Joback Method
hvap	72.08	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	4.724		Crippen Method
mvol	197.220	ml/mol	McGowan Method
pc	2637.96	kPa	Joback Method
tb	761.96	K	Joback Method
tc	1025.99	K	Joback Method
tf	471.78	K	Joback Method
vc	0.749	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.68	J/molxK	761.96	Joback Method
cpg	513.06	J/molxK	805.96	Joback Method
cpg	525.24	J/molxK	849.97	Joback Method
cpg	536.38	J/molxK	893.97	Joback Method
cpg	546.61	J/molxK	937.98	Joback Method
cpg	556.07	J/molxK	981.98	Joback Method
cpg	564.90	J/molxK	1025.99	Joback Method
dvisc	0.0012160	Paxs	471.78	Joback Method
dvisc	0.0008206	Paxs	520.14	Joback Method

dvisc	0.0005921	Paxs	568.51	Joback Method
dvisc	0.0004497	Paxs	616.87	Joback Method
dvisc	0.0003554	Paxs	665.23	Joback Method
dvisc	0.0002900	Paxs	713.60	Joback Method
dvisc	0.0002429	Paxs	761.96	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C180780158&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
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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