

2-Chlorobenzoic acid, 2-adamantyl ester

Inchi:	InChI=1S/C17H19ClO2/c18-15-4-2-1-3-14(15)17(19)20-16-12-6-10-5-11(8-12)9-13(16)7
InchiKey:	HYDIOIONCLEIID-UHFFFAOYSA-N
Formula:	C17H19ClO2
SMILES:	O=C(OC1C2CC3CC(C2)CC1C3)c1ccccc1Cl
Mol. weight [g/mol]:	290.79

Physical Properties

Property code	Value	Unit	Source
gf	103.92	kJ/mol	Joback Method
hf	-258.13	kJ/mol	Joback Method
hfus	34.87	kJ/mol	Joback Method
hvap	69.21	kJ/mol	Joback Method
log10ws	-5.00		Crippen Method
logp	4.321		Crippen Method
mvol	213.730	ml/mol	McGowan Method
pc	2111.94	kPa	Joback Method
rinpol	2214.10		NIST Webbook
rinpol	2214.10		NIST Webbook
tb	748.89	K	Joback Method
tc	989.44	K	Joback Method
tf	464.19	K	Joback Method
vc	0.814	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	647.32	J/molxK	748.89	Joback Method
cpg	666.07	J/molxK	788.98	Joback Method
cpg	683.43	J/molxK	829.07	Joback Method
cpg	699.52	J/molxK	869.17	Joback Method
cpg	714.49	J/molxK	909.26	Joback Method
cpg	728.47	J/molxK	949.35	Joback Method
cpg	741.58	J/molxK	989.44	Joback Method
dvisc	0.0040928	Paxs	464.19	Joback Method

dvisc	0.0036280	Paxs	511.64	Joback Method
dvisc	0.0032825	Paxs	559.09	Joback Method
dvisc	0.0030167	Paxs	606.54	Joback Method
dvisc	0.0028066	Paxs	653.99	Joback Method
dvisc	0.0026368	Paxs	701.44	Joback Method
dvisc	0.0024969	Paxs	748.89	Joback Method

Sources

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=U292277&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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