

Phthalic acid, 2-chloropropyl ethyl ester

Inchi:	InChI=1S/C13H15ClO4/c1-3-17-12(15)10-6-4-5-7-11(10)13(16)18-8-9(2)14/h4-7,9H,3,8H
InchiKey:	YFHRWQJTJKPE-UHFFFAOYSA-N
Formula:	C13H15ClO4
SMILES:	CCOC(=O)c1ccccc1C(=O)OCC(C)Cl
Mol. weight [g/mol]:	270.71

Physical Properties

Property code	Value	Unit	Source
gf	-320.85	kJ/mol	Joback Method
hf	-597.21	kJ/mol	Joback Method
hfus	29.33	kJ/mol	Joback Method
hvap	69.78	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	2.647		Crippen Method
mcvol	197.390	ml/mol	McGowan Method
pc	2295.91	kPa	Joback Method
rinsol	1868.00		NIST Webbook
tb	718.07	K	Joback Method
tc	933.75	K	Joback Method
tf	434.45	K	Joback Method
vc	0.747	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.64	J/molxK	718.07	Joback Method
cpg	570.15	J/molxK	897.80	Joback Method
cpg	560.66	J/molxK	861.85	Joback Method
cpg	550.27	J/molxK	825.91	Joback Method
cpg	538.97	J/molxK	789.96	Joback Method
cpg	526.77	J/molxK	754.02	Joback Method
cpg	578.75	J/molxK	933.75	Joback Method
dvisc	0.0001127	Paxs	718.07	Joback Method
dvisc	0.0001435	Paxs	670.80	Joback Method

dvisc	0.0001896	Paxs	623.53	Joback Method
dvisc	0.0002621	Paxs	576.26	Joback Method
dvisc	0.0003839	Paxs	528.99	Joback Method
dvisc	0.0006062	Paxs	481.72	Joback Method
dvisc	0.0010572	Paxs	434.45	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=U356822&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
mccvol:	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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