

Fumaric acid, butyl pentachlorophenyl ester

Inchi:	InChI=1S/C14H11Cl5O4/c1-2-3-6-22-7(20)4-5-8(21)23-14-12(18)10(16)9(15)11(17)13(14)
InchiKey:	FWAPVTJQGLXHOP-SNAWJCMRSA-N
Formula:	C14H11Cl5O4
SMILES:	CCCCOC(=O)C=CC(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
Mol. weight [g/mol]:	420.50

Physical Properties

Property code	Value	Unit	Source
gf	-316.01	kJ/mol	Joback Method
hf	-604.19	kJ/mol	Joback Method
hfus	50.87	kJ/mol	Joback Method
hvap	92.54	kJ/mol	Joback Method
log10ws	-6.44		Crippen Method
logp	5.758		Crippen Method
mvol	256.140	ml/mol	McGowan Method
pc	1815.41	kPa	Joback Method
rinpol	2699.00		NIST Webbook
rinpol	2699.00		NIST Webbook
tb	915.19	K	Joback Method
tc	1147.20	K	Joback Method
tf	625.40	K	Joback Method
vc	0.985	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	616.95	J/molxK	915.19	Joback Method
cpg	625.11	J/molxK	953.86	Joback Method
cpg	632.38	J/molxK	992.53	Joback Method
cpg	638.76	J/molxK	1031.19	Joback Method
cpg	644.26	J/molxK	1069.86	Joback Method
cpg	648.88	J/molxK	1108.53	Joback Method
cpg	652.63	J/molxK	1147.20	Joback Method
dvisc	0.0002552	Paxs	625.40	Joback Method

dvisc	0.0001815	Paxs	673.70	Joback Method
dvisc	0.0001351	Paxs	722.00	Joback Method
dvisc	0.0001043	Paxs	770.30	Joback Method
dvisc	0.0000831	Paxs	818.59	Joback Method
dvisc	0.0000678	Paxs	866.89	Joback Method
dvisc	0.0000566	Paxs	915.19	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U348181&Units=SI

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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