

Succinic acid, 3-chlorophenyl pentafluorobenzyl ester

Inchi:	InChI=1S/C17H10ClF5O4/c18-8-2-1-3-9(6-8)27-12(25)5-4-11(24)26-7-10-13(19)15(21)1
InchiKey:	WYUMACPUACBMAF-UHFFFAOYSA-N
Formula:	C17H10ClF5O4
SMILES:	O=C(CCC(=O)Oc1cccc(Cl)c1)OCc1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	408.70

Physical Properties

Property code	Value	Unit	Source
gf	-1194.52	kJ/mol	Joback Method
hf	-1475.86	kJ/mol	Joback Method
hfus	50.70	kJ/mol	Joback Method
hvap	80.57	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	4.465		Crippen Method
mcvol	238.840	ml/mol	McGowan Method
pc	1668.70	kPa	Joback Method
rinpola	2315.00		NIST Webbook
rinpola	2315.00		NIST Webbook
tb	857.96	K	Joback Method
tc	1064.21	K	Joback Method
tf	586.50	K	Joback Method
vc	0.959	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	665.41	J/molxK	857.96	Joback Method
cpg	675.19	J/molxK	892.33	Joback Method
cpg	684.03	J/molxK	926.71	Joback Method
cpg	691.93	J/molxK	961.08	Joback Method
cpg	698.89	J/molxK	995.46	Joback Method
cpg	704.91	J/molxK	1029.83	Joback Method
cpg	709.99	J/molxK	1064.21	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=U389888&Units=SI

Legend

cpg:	Ideal gas heat capacity
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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