

Fumaric acid, pentafluorobenzyl 2,4,6-trichlorophenyl ester

Inchi: InChI=1S/C17H6Cl3F5O4/c18-6-3-8(19)17(9(20)4-6)29-11(27)2-1-10(26)28-5-7-12(21)1

InchiKey: BDDSAMTTYHSXNH-OWOJBTEDSA-N

Formula: C17H6Cl3F5O4

SMILES: O=C(C=CC(=O)Oc1c(Cl)cc(Cl)cc1Cl)OCc1c(F)c(F)c(F)c(F)c1F

Mol. weight [g/mol]: 475.58

Physical Properties

Property code	Value	Unit	Source
gf	-1157.42	kJ/mol	Joback Method
hf	-1413.06	kJ/mol	Joback Method
hfus	58.52	kJ/mol	Joback Method
hvap	90.62	kJ/mol	Joback Method
log10ws	-7.58		Crippen Method
logp	5.547		Crippen Method
mcvol	259.020	ml/mol	McGowan Method
pc	1600.00	kPa	Joback Method
rinpol	2536.00		NIST Webbook
rinpol	2536.00		NIST Webbook
tb	946.94	K	Joback Method
tc	1168.90	K	Joback Method
tf	666.30	K	Joback Method
vc	1.036	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	669.87	J/mol×K	946.94	Joback Method
cpg	676.87	J/mol×K	983.93	Joback Method
cpg	682.93	J/mol×K	1020.93	Joback Method
cpg	688.06	J/mol×K	1057.92	Joback Method
cpg	692.26	J/mol×K	1094.91	Joback Method
cpg	695.54	J/mol×K	1131.90	Joback Method
cpg	697.91	J/mol×K	1168.90	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=U405886&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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

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