

Isophthalic acid, hexyl pentachlorophenyl ester

Inchi:	InChI=1S/C20H17Cl5O4/c1-2-3-4-5-9-28-19(26)11-7-6-8-12(10-11)20(27)29-18-16(24)1
InchiKey:	REKFDACZCXFMAM-UHFFFAOYSA-N
Formula:	C20H17Cl5O4
SMILES:	CCCCCOC(=O)c1cccc(C(=O)Oc2c(Cl)c(Cl)c(Cl)c(Cl)c2Cl)c1
Mol. weight [g/mol]:	498.61

Physical Properties

Property code	Value	Unit	Source
gf	-242.93	kJ/mol	Joback Method
hf	-620.19	kJ/mol	Joback Method
hfus	59.86	kJ/mol	Joback Method
hvap	108.87	kJ/mol	Joback Method
log10ws	-9.32		Crippen Method
logp	7.910		Crippen Method
mvol	321.220	ml/mol	McGowan Method
pc	1414.37	kPa	Joback Method
rinpol	3423.00		NIST Webbook
rinpol	3423.00		NIST Webbook
tb	1079.97	K	Joback Method
tc	1328.98	K	Joback Method
tf	737.04	K	Joback Method
vc	1.232	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	869.02	J/molxK	1079.97	Joback Method
cpg	875.61	J/molxK	1121.47	Joback Method
cpg	880.77	J/molxK	1162.97	Joback Method
cpg	884.53	J/molxK	1204.47	Joback Method
cpg	886.90	J/molxK	1245.97	Joback Method
cpg	887.92	J/molxK	1287.48	Joback Method
cpg	887.58	J/molxK	1328.98	Joback Method
dvisc	0.0001301	Paxs	737.04	Joback Method

dvisc	0.0000921	Paxs	794.19	Joback Method
dvisc	0.0000682	Paxs	851.35	Joback Method
dvisc	0.0000525	Paxs	908.50	Joback Method
dvisc	0.0000417	Paxs	965.66	Joback Method
dvisc	0.0000339	Paxs	1022.82	Joback Method
dvisc	0.0000282	Paxs	1079.97	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U356579&Units=SI
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

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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