

2,6-Dimethylphenol, pentafluorobenzoyl ester

Inchi:	InChI=1S/C15H9F5O2/c1-6-4-3-5-7(2)14(6)22-15(21)8-9(16)11(18)13(20)12(19)10(8)17
InchiKey:	GZZVUDMCDFSIHZ-UHFFFAOYSA-N
Formula:	C15H9F5O2
SMILES:	Cc1cccc(C)c1OC(=O)c1c(F)c(F)c(F)c(F)c1F
Mol. weight [g/mol]:	316.22

Physical Properties

Property code	Value	Unit	Source
gf	-975.14	kJ/mol	Joback Method
hf	-1185.51	kJ/mol	Joback Method
hfus	38.15	kJ/mol	Joback Method
hvap	63.24	kJ/mol	Joback Method
log10ws	-6.17		Crippen Method
logp	4.218		Crippen Method
mcvol	190.980	ml/mol	McGowan Method
pc	1923.67	kPa	Joback Method
rinpol	1630.70		NIST Webbook
rinpol	1638.00		NIST Webbook
rinpol	1633.70		NIST Webbook
rinpol	1630.70		NIST Webbook
tb	703.46	K	Joback Method
tc	901.36	K	Joback Method
tf	474.40	K	Joback Method
vc	0.773	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.10	J/molxK	703.46	Joback Method
cpg	510.61	J/molxK	736.44	Joback Method
cpg	521.42	J/molxK	769.43	Joback Method
cpg	531.54	J/molxK	802.41	Joback Method
cpg	540.97	J/molxK	835.40	Joback Method
cpg	549.70	J/molxK	868.38	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=R433060&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/115-399-2/2-6-Dimethylphenol-pentafluorobenzoyl-ester.pdf>

Generated by Cheméo on 2024-04-30 13:38:17.971568537 +0000 UTC m=+16773546.892145875.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.