

4,4'-Bis[2-hydroxyhexafluoroisopropyl]diphenyl ether

InChI:
InChIKey:

InChI=1S/C18H10F12O3/c19-15(20,21)13(31,16(22,23)24)9-1-5-11(6-2-9)33-12-7-3-10(

PRBPSTYDUVSNOK-UHFFFAOYSA-N

Formula:

C18H10F12O3

SMILES:

OC(c1ccc(Oc2ccc(C(O)(C(F)(F)F)C(F)(F)F)cc2)cc1)(C(F)(F)F)C(F)(F)F

Mol. weight [g/mol]:

502.25

CAS:

2093-04-1

Physical Properties

Property code	Value	Unit	Source
gf	-2393.08	kJ/mol	Joback Method
hf	-2807.23	kJ/mol	Joback Method
hfus	31.52	kJ/mol	Joback Method
hvap	79.73	kJ/mol	Joback Method
log10ws	-7.06		Crippen Method
logp	6.103		Crippen Method
mcvol	255.810	ml/mol	McGowan Method
pc	1510.50	kPa	Joback Method
tb	853.20	K	Joback Method
tc	1045.14	K	Joback Method
tf	535.97	K	Joback Method
vc	1.034	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	818.85	J/molxK	853.20	Joback Method
cpg	827.43	J/molxK	885.19	Joback Method
cpg	835.43	J/molxK	917.18	Joback Method
cpg	842.97	J/molxK	949.17	Joback Method
cpg	850.18	J/molxK	981.16	Joback Method
cpg	857.20	J/molxK	1013.15	Joback Method
cpg	864.15	J/molxK	1045.14	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2093041&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
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/97-361-4/4-4-Bis-2-hydroxyhexafluoroisopropyl-diphenyl-ether.pdf>

Generated by Cheméo on 2024-04-26 07:53:10.493781894 +0000 UTC m=+16407239.414359206.

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