

Bis-(4-tert-butylphenoxy) ethoxy methane

Inchi:	InChI=1S/C23H32O3/c1-8-24-21(25-19-13-9-17(10-14-19)22(2,3)4)26-20-15-11-18(12-1
InchiKey:	ALMHHUIHYYQXMJ-UHFFFAOYSA-N
Formula:	C23H32O3
SMILES:	CCOC(Oc1ccc(C(C)(C)C)cc1)Oc1ccc(C(C)(C)C)cc1
Mol. weight [g/mol]:	356.50
CAS:	116374-08-4

Physical Properties

Property code	Value	Unit	Source
gf	36.58	kJ/mol	Joback Method
hf	-487.37	kJ/mol	Joback Method
hfus	27.84	kJ/mol	Joback Method
hvap	76.92	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	6.059		Crippen Method
mcvol	305.020	ml/mol	McGowan Method
pc	1276.42	kPa	Joback Method
tb	849.32	K	Joback Method
tc	1074.28	K	Joback Method
tf	483.38	K	Joback Method
vc	1.133	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	955.33	J/molxK	849.32	Joback Method
cpg	974.01	J/molxK	886.81	Joback Method
cpg	991.21	J/molxK	924.31	Joback Method
cpg	1007.01	J/molxK	961.80	Joback Method
cpg	1021.50	J/molxK	999.29	Joback Method
cpg	1034.74	J/molxK	1036.79	Joback Method
cpg	1046.82	J/molxK	1074.28	Joback Method
dvisc	0.0003345	Paxs	483.38	Joback Method
dvisc	0.0001548	Paxs	544.37	Joback Method

dvisc	0.0000836	Paxs	605.36	Joback Method
dvisc	0.0000506	Paxs	666.35	Joback Method
dvisc	0.0000333	Paxs	727.34	Joback Method
dvisc	0.0000234	Paxs	788.33	Joback Method
dvisc	0.0000173	Paxs	849.32	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C116374084&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/88-702-5/Bis-4-tert-butylphenoxy-ethoxy-methane.pdf>

Generated by Cheméo on 2024-04-29 13:11:23.041747563 +0000 UTC m=+16685531.962324876.

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