

Terephthalic acid, di(2-phenoxyethyl) ester

Inchi:	InChI=1S/C24H22O6/c25-23(29-17-15-27-21-7-3-1-4-8-21)19-11-13-20(14-12-19)24(26)
InchiKey:	JJTLCMPVLZYLPH-UHFFFAOYSA-N
Formula:	C24H22O6
SMILES:	O=C(OCCOc1ccccc1)c1ccc(C(=O)OCCOc2ccccc2)cc1
Mol. weight [g/mol]:	406.43

Physical Properties

Property code	Value	Unit	Source
gf	-199.04	kJ/mol	Joback Method
hf	-594.61	kJ/mol	Joback Method
hfus	47.60	kJ/mol	Joback Method
hvap	99.64	kJ/mol	Joback Method
log10ws	-5.49		Crippen Method
logp	4.158		Crippen Method
mvol	304.360	ml/mol	McGowan Method
pc	1618.07	kPa	Joback Method
rinpol	2524.00		NIST Webbook
rinpol	2524.00		NIST Webbook
tb	1030.96	K	Joback Method
tc	1275.31	K	Joback Method
tf	640.80	K	Joback Method
vc	1.139	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	959.41	J/molxK	1030.96	Joback Method
cpg	989.49	J/molxK	1234.59	Joback Method
cpg	986.93	J/molxK	1193.86	Joback Method
cpg	982.67	J/molxK	1153.14	Joback Method
cpg	976.69	J/molxK	1112.41	Joback Method
cpg	968.95	J/molxK	1071.69	Joback Method
cpg	990.41	J/molxK	1275.31	Joback Method
dvisc	0.0000180	Paxs	1030.96	Joback Method

dvisc	0.0000228	Paxs	965.93	Joback Method
dvisc	0.0000299	Paxs	900.91	Joback Method
dvisc	0.0000408	Paxs	835.88	Joback Method
dvisc	0.0000586	Paxs	770.85	Joback Method
dvisc	0.0000901	Paxs	705.83	Joback Method
dvisc	0.0001513	Paxs	640.80	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U416049&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
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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