

Bis(tridecyl) phthalate

Other names:	1,2-Benzenedicarboxylic acid, ditridecyl ester Phthalic acid, ditridecyl ester Ditridecyl phthalate Polycizer 962-BPA Staflex DTDP Truflex DTDP DTDP Jayflex DTDP Nuoplaz 1-Tridecanol, phthalate 1,2-Benzenedicarboxylic acid, 1,2-ditridecyl ester
Inchi:	InChI=1S/C34H58O4/c1-3-5-7-9-11-13-15-17-19-21-25-29-37-33(35)31-27-23-24-28-32(
InchiKey:	YCZJVRCZIPDYHH-UHFFFAOYSA-N
Formula:	C34H58O4
SMILES:	CCCCCCCCCCCCCOC(=O)c1ccccc1C(=O)OCCCCCCCCCCCCC
Mol. weight [g/mol]:	530.82
CAS:	119-06-2

Physical Properties

Property code	Value	Unit	Source
gf	-129.66	kJ/mol	Joback Method
hf	-1009.63	kJ/mol	Joback Method
hfus	83.04	kJ/mol	Joback Method
hvap	112.53	kJ/mol	Joback Method
log10ws	-12.00		Crippen Method
logp	10.622		Crippen Method
mcvol	481.040	ml/mol	McGowan Method
pc	602.50	kPa	Joback Method
tb	1161.56	K	Joback Method
tc	1474.43	K	Joback Method
tf	656.20	K	Joback Method
vc	1.879	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1754.08	J/molxK	1161.56	Joback Method
cpg	1775.18	J/molxK	1213.70	Joback Method
cpg	1793.23	J/molxK	1265.85	Joback Method
cpg	1808.45	J/molxK	1317.99	Joback Method
cpg	1821.08	J/molxK	1370.14	Joback Method
cpg	1831.34	J/molxK	1422.28	Joback Method
cpg	1839.46	J/molxK	1474.43	Joback Method
dvisc	0.0001062	Paxs	656.20	Joback Method
dvisc	0.0000510	Paxs	740.43	Joback Method
dvisc	0.0000284	Paxs	824.65	Joback Method
dvisc	0.0000177	Paxs	908.88	Joback Method
dvisc	0.0000119	Paxs	993.11	Joback Method
dvisc	0.0000085	Paxs	1077.33	Joback Method
dvisc	0.0000064	Paxs	1161.56	Joback Method

Sources

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=C119062&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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