

Terephthalic acid, di(2,2-dichloroethyl) ester

Inchi:	InChI=1S/C12H10Cl4O4/c13-9(14)5-19-11(17)7-1-2-8(4-3-7)12(18)20-6-10(15)16/h1-4,9
InchiKey:	CGYYTTZDBWJDMS-UHFFFAOYSA-N
Formula:	C12H10Cl4O4
SMILES:	O=C(OCC(Cl)Cl)c1ccc(C(=O)OCC(Cl)Cl)cc1
Mol. weight [g/mol]:	360.02

Physical Properties

Property code	Value	Unit	Source
gf	-367.50	kJ/mol	Joback Method
hf	-629.07	kJ/mol	Joback Method
hfus	35.80	kJ/mol	Joback Method
hvap	80.32	kJ/mol	Joback Method
log10ws	-4.62		Crippen Method
logp	3.608		Crippen Method
mcvol	220.020	ml/mol	McGowan Method
pc	2280.59	kPa	Joback Method
rinpol	2381.00		NIST Webbook
tb	807.04	K	Joback Method
tc	1038.33	K	Joback Method
tf	497.94	K	Joback Method
vc	0.832	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	528.04	J/mol×K	807.04	Joback Method
cpg	537.52	J/mol×K	845.59	Joback Method
cpg	546.04	J/mol×K	884.14	Joback Method
cpg	553.63	J/mol×K	922.69	Joback Method
cpg	560.28	J/mol×K	961.24	Joback Method
cpg	566.02	J/mol×K	999.79	Joback Method
cpg	570.86	J/mol×K	1038.33	Joback Method
dvisc	0.0007558	Paxs	497.94	Joback Method
dvisc	0.0004362	Paxs	549.46	Joback Method

dvisc	0.0002766	Paxs	600.97	Joback Method
dvisc	0.0001885	Paxs	652.49	Joback Method
dvisc	0.0001358	Paxs	704.01	Joback Method
dvisc	0.0001024	Paxs	755.52	Joback Method
dvisc	0.0000800	Paxs	807.04	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U356242&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
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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