

Fumaric acid, di(2,2,2-trichloroethyl) ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C8H6Cl6O4/c9-7(10,11)3-17-5(15)1-2-6(16)18-4-8(12,13)14/h1-2H,3-4H2/b2-1

WFTACGQPAJJUOO-OWOJBTEDSA-N

C8H6Cl6O4

O=C(C=CC(=O)OCC(Cl)(Cl)Cl)OCC(Cl)(Cl)Cl

378.85

Physical Properties

Property code	Value	Unit	Source
gf	-437.04	kJ/mol	Joback Method
hf	-692.77	kJ/mol	Joback Method
hfus	32.61	kJ/mol	Joback Method
hvap	75.39	kJ/mol	Joback Method
log10ws	-3.87		Crippen Method
logp	3.369		Crippen Method
mcvol	207.600	ml/mol	McGowan Method
pc	2436.25	kPa	Joback Method
rinpol	1997.00		NIST Webbook
tb	757.30	K	Joback Method
tc	993.10	K	Joback Method
tf	503.52	K	Joback Method
vc	0.783	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.47	J/mol×K	757.30	Joback Method
cpg	444.08	J/mol×K	796.60	Joback Method
cpg	450.01	J/mol×K	835.90	Joback Method
cpg	455.34	J/mol×K	875.20	Joback Method
cpg	460.13	J/mol×K	914.50	Joback Method
cpg	464.47	J/mol×K	953.80	Joback Method
cpg	468.41	J/mol×K	993.10	Joback Method
dvisc	0.0006338	Pa×s	503.52	Joback Method
dvisc	0.0003823	Pa×s	545.82	Joback Method

dvisc	0.0002479	Pa×s	588.11	Joback Method
dvisc	0.0001704	Pa×s	630.41	Joback Method
dvisc	0.0001228	Pa×s	672.71	Joback Method
dvisc	0.0000920	Pa×s	715.00	Joback Method
dvisc	0.0000712	Pa×s	757.30	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=U348511&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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