

Fumaric acid, 3,5-dichlorophenyl isobutyl ester

Inchi:	InChI=1S/C14H14Cl2O4/c1-9(2)8-19-13(17)3-4-14(18)20-12-6-10(15)5-11(16)7-12/h3-7,
InchiKey:	HLGHAOURNLIAIB-ONEGZZNKSA-N
Formula:	C14H14Cl2O4
SMILES:	CC(C)COC(=O)C=CC(=O)Oc1cc(Cl)cc(Cl)c1
Mol. weight [g/mol]:	317.17

Physical Properties

Property code	Value	Unit	Source
gf	-253.77	kJ/mol	Joback Method
hf	-527.84	kJ/mol	Joback Method
hfus	35.93	kJ/mol	Joback Method
hvap	77.01	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.654		Crippen Method
mcvol	219.420	ml/mol	McGowan Method
pc	2098.42	kPa	Joback Method
rinpol	2158.00		NIST Webbook
rinpol	2158.00		NIST Webbook
tb	787.52	K	Joback Method
tc	1011.27	K	Joback Method
tf	483.08	K	Joback Method
vc	0.832	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.75	J/molxK	787.52	Joback Method
cpg	575.48	J/molxK	824.81	Joback Method
cpg	586.29	J/molxK	862.10	Joback Method
cpg	596.19	J/molxK	899.40	Joback Method
cpg	605.20	J/molxK	936.69	Joback Method
cpg	613.35	J/molxK	973.98	Joback Method
cpg	620.65	J/molxK	1011.27	Joback Method
dvisc	0.0006394	Paxs	483.08	Joback Method

dvisc	0.0003794	Paxs	533.82	Joback Method
dvisc	0.0002464	Paxs	584.56	Joback Method
dvisc	0.0001715	Paxs	635.30	Joback Method
dvisc	0.0001259	Paxs	686.04	Joback Method
dvisc	0.0000965	Paxs	736.78	Joback Method
dvisc	0.0000765	Paxs	787.52	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=U348233&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
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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