

Fumaric acid, 2,5-dichlorophenyl 3-methylbut-2-yl ester

Inchi:	InChI=1S/C15H16Cl2O4/c1-9(2)10(3)20-14(18)6-7-15(19)21-13-8-11(16)4-5-12(13)17/h
InchiKey:	YBBLTLSRBIQING-VOTSOKGWSA-N
Formula:	C15H16Cl2O4
SMILES:	CC(C)C(C)OC(=O)C=CC(=O)Oc1cc(Cl)ccc1Cl
Mol. weight [g/mol]:	331.19

Physical Properties

Property code	Value	Unit	Source
gf	-247.79	kJ/mol	Joback Method
hf	-553.76	kJ/mol	Joback Method
hfus	34.99	kJ/mol	Joback Method
hvap	78.85	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.043		Crippen Method
mcvol	233.510	ml/mol	McGowan Method
pc	1938.95	kPa	Joback Method
rinpola	2165.00		NIST Webbook
rinpola	2165.00		NIST Webbook
tb	809.96	K	Joback Method
tc	1034.25	K	Joback Method
tf	479.35	K	Joback Method
vc	0.881	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	618.34	J/molxK	809.96	Joback Method
cpg	630.62	J/molxK	847.34	Joback Method
cpg	641.91	J/molxK	884.72	Joback Method
cpg	652.21	J/molxK	922.11	Joback Method
cpg	661.57	J/molxK	959.49	Joback Method
cpg	670.00	J/molxK	996.87	Joback Method
cpg	677.52	J/molxK	1034.25	Joback Method
dvisc	0.0006577	Paxs	479.35	Joback Method

dvisc	0.0003613	Paxs	534.45	Joback Method
dvisc	0.0002220	Paxs	589.55	Joback Method
dvisc	0.0001483	Paxs	644.65	Joback Method
dvisc	0.0001055	Paxs	699.76	Joback Method
dvisc	0.0000789	Paxs	754.86	Joback Method
dvisc	0.0000614	Paxs	809.96	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=U405964&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

Latest version available from:

<https://www.chemeo.com/cid/116-564-7/Fumaric-acid-2-5-dichlorophenyl-3-methylbut-2-yl-ester.pdf>

Generated by Cheméo on 2024-04-30 03:08:48.270624266 +0000 UTC m=+16735777.191201581.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.