

Fumaric acid, 2,4-dichlorophenyl dodec-2-en-1-yl ester

Inchi:	InChI=1S/C22H28Cl2O4/c1-2-3-4-5-6-7-8-9-10-11-16-27-21(25)14-15-22(26)28-20-13-12
InchiKey:	UFMNQBOLHZPDDZ-RICRECKTSA-N
Formula:	C22H28Cl2O4
SMILES:	CCCCCCCCC=CCOC(=O)C=CC(=O)Oc1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	427.36

Physical Properties

Property code	Value	Unit	Source
gf	-103.75	kJ/mol	Joback Method
hf	-570.46	kJ/mol	Joback Method
hfus	60.37	kJ/mol	Joback Method
hvap	95.16	kJ/mol	Joback Method
log10ws	-7.59		Crippen Method
logp	6.695		Crippen Method
mvol	327.840	ml/mol	McGowan Method
pc	1183.34	kPa	Joback Method
rinpol	2999.00		NIST Webbook
rinpol	2999.00		NIST Webbook
tb	975.16	K	Joback Method
tc	1197.33	K	Joback Method
tf	583.16	K	Joback Method
vc	1.266	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	990.88	J/molxK	975.16	Joback Method
cpg	1004.51	J/molxK	1012.19	Joback Method
cpg	1017.10	J/molxK	1049.22	Joback Method
cpg	1028.73	J/molxK	1086.25	Joback Method
cpg	1039.45	J/molxK	1123.27	Joback Method
cpg	1049.33	J/molxK	1160.30	Joback Method
cpg	1058.44	J/molxK	1197.33	Joback Method
dvisc	0.0002347	Paxs	583.16	Joback Method

dvisc	0.0001317	Paxs	648.49	Joback Method
dvisc	0.0000821	Paxs	713.83	Joback Method
dvisc	0.0000555	Paxs	779.16	Joback Method
dvisc	0.0000398	Paxs	844.49	Joback Method
dvisc	0.0000299	Paxs	909.83	Joback Method
dvisc	0.0000234	Paxs	975.16	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=U405705&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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