

Fumaric acid, 2-chloro-5-methylphenyl ethyl ester

Inchi:	InChI=1S/C13H13ClO4/c1-3-17-12(15)6-7-13(16)18-11-8-9(2)4-5-10(11)14/h4-8H,3H2,1
InchiKey:	DHFVGVUEZZSWGQ-VOTSOKGWSA-N
Formula:	C13H13ClO4
SMILES:	CCOC(=O)C=CC(=O)Oc1cc(C)ccc1Cl
Mol. weight [g/mol]:	268.69

Physical Properties

Property code	Value	Unit	Source
gf	-247.82	kJ/mol	Joback Method
hf	-486.18	kJ/mol	Joback Method
hfus	32.66	kJ/mol	Joback Method
hvap	70.79	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	2.673		Crippen Method
mvol	193.090	ml/mol	McGowan Method
pc	2361.07	kPa	Joback Method
rinpol	1930.00		NIST Webbook
rinpol	1930.00		NIST Webbook
tb	727.65	K	Joback Method
tc	948.05	K	Joback Method
tf	456.89	K	Joback Method
vc	0.733	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	487.67	J/molxK	727.65	Joback Method
cpg	499.83	J/molxK	764.38	Joback Method
cpg	511.12	J/molxK	801.12	Joback Method
cpg	521.59	J/molxK	837.85	Joback Method
cpg	531.23	J/molxK	874.58	Joback Method
cpg	540.06	J/molxK	911.32	Joback Method
cpg	548.09	J/molxK	948.05	Joback Method
dvisc	0.0007152	Paxs	456.89	Joback Method

dvisc	0.0004505	Paxs	502.02	Joback Method
dvisc	0.0003062	Paxs	547.14	Joback Method
dvisc	0.0002208	Paxs	592.27	Joback Method
dvisc	0.0001667	Paxs	637.40	Joback Method
dvisc	0.0001307	Paxs	682.52	Joback Method
dvisc	0.0001055	Paxs	727.65	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=U348254&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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