

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

Inchi:	InChI=1S/C17H21ClO4/c1-12(2)5-4-10-21-16(19)8-9-17(20)22-15-11-13(3)6-7-14(15)18
InchiKey:	TYLIEZFLRWKOL-CMDGGGOBGSA-N
Formula:	C17H21ClO4
SMILES:	<chem>Cc1ccc(Cl)c(OC(=O)C=CC(=O)OCCCC(C)C)c1</chem>
Mol. weight [g/mol]:	324.80

Physical Properties

Property code	Value	Unit	Source
gf	-216.58	kJ/mol	Joback Method
hf	-574.02	kJ/mol	Joback Method
hfus	39.50	kJ/mol	Joback Method
hvap	79.30	kJ/mol	Joback Method
log10ws	-4.77		Crippen Method
logp	4.089		Crippen Method
mcvol	249.450	ml/mol	McGowan Method
pc	1687.95	kPa	Joback Method
rinpol	2303.00		NIST Webbook
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tb	818.73	K	Joback Method
tc	1032.21	K	Joback Method
tf	486.97	K	Joback Method
vc	0.951	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	704.73	J/molxK	818.73	Joback Method
cpg	764.14	J/molxK	996.63	Joback Method
cpg	754.19	J/molxK	961.05	Joback Method
cpg	743.31	J/molxK	925.47	Joback Method
cpg	731.45	J/molxK	889.89	Joback Method
cpg	718.60	J/molxK	854.31	Joback Method
cpg	773.17	J/molxK	1032.21	Joback Method
dvisc	0.0000583	Paxs	818.73	Joback Method

dvisc	0.0000745	Paxs	763.44	Joback Method
dvisc	0.0000988	Paxs	708.14	Joback Method
dvisc	0.0001375	Paxs	652.85	Joback Method
dvisc	0.0002034	Paxs	597.56	Joback Method
dvisc	0.0003260	Paxs	542.26	Joback Method
dvisc	0.0005815	Paxs	486.97	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=U348259&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
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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