

Diglycolic acid, decyl 3-methylphenyl ester

Inchi:	InChI=1S/C21H32O5/c1-3-4-5-6-7-8-9-10-14-25-20(22)16-24-17-21(23)26-19-13-11-12-1
InchiKey:	LXNHGBKTVODESA-UHFFFAOYSA-N
Formula:	C21H32O5
SMILES:	CCCCCCCCCOC(=O)COCC(=O)Oc1cccc(C)c1
Mol. weight [g/mol]:	364.48

Physical Properties

Property code	Value	Unit	Source
gf	-344.12	kJ/mol	Joback Method
hf	-873.53	kJ/mol	Joback Method
hfus	50.56	kJ/mol	Joback Method
hvap	86.00	kJ/mol	Joback Method
log10ws	-5.23		Crippen Method
logp	4.601		Crippen Method
mcvol	303.740	ml/mol	McGowan Method
pc	1237.22	kPa	Joback Method
rinpol	3261.00		NIST Webbook
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tb	886.54	K	Joback Method
tc	1089.96	K	Joback Method
tf	531.92	K	Joback Method
vc	1.169	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	966.74	J/mol×K	886.54	Joback Method
cpg	1033.23	J/mol×K	1056.05	Joback Method
cpg	1022.43	J/mol×K	1022.15	Joback Method
cpg	1010.40	J/mol×K	988.25	Joback Method
cpg	997.11	J/mol×K	954.35	Joback Method
cpg	982.57	J/mol×K	920.44	Joback Method
cpg	1042.80	J/mol×K	1089.96	Joback Method
dvisc	0.0000356	Pa×s	886.54	Joback Method

dvisc	0.0000458	Pa×s	827.44	Joback Method
dvisc	0.0000612	Pa×s	768.33	Joback Method
dvisc	0.0000860	Pa×s	709.23	Joback Method
dvisc	0.0001284	Pa×s	650.13	Joback Method
dvisc	0.0002078	Pa×s	591.02	Joback Method
dvisc	0.0003742	Pa×s	531.92	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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=U382107&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

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