

Diglycolic acid, 2-formylphenyl isohexyl ester

Inchi:	InChI=1S/C17H22O6/c1-13(2)6-5-9-22-16(19)11-21-12-17(20)23-15-8-4-3-7-14(15)10-18
InchiKey:	OWUABLIVYLSIPM-UHFFFAOYSA-N
Formula:	C17H22O6
SMILES:	CC(C)CCOC(=O)COCC(=O)Oc1ccccc1C=O
Mol. weight [g/mol]:	322.35

Physical Properties

Property code	Value	Unit	Source
gf	-479.76	kJ/mol	Joback Method
hf	-881.83	kJ/mol	Joback Method
hfus	38.97	kJ/mol	Joback Method
hvap	83.43	kJ/mol	Joback Method
log10ws	-3.08		Crippen Method
logp	2.401		Crippen Method
mvol	248.950	ml/mol	McGowan Method
pc	1769.87	kPa	Joback Method
rinpol	2917.00		NIST Webbook
rinpol	2917.00		NIST Webbook
tb	843.24	K	Joback Method
tc	1050.17	K	Joback Method
tf	513.84	K	Joback Method
vc	0.957	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	748.37	J/molxK	843.24	Joback Method
cpg	803.52	J/molxK	1015.68	Joback Method
cpg	794.74	J/molxK	981.20	Joback Method
cpg	784.83	J/molxK	946.71	Joback Method
cpg	773.81	J/molxK	912.22	Joback Method
cpg	761.65	J/molxK	877.73	Joback Method
cpg	811.18	J/molxK	1050.17	Joback Method
dvisc	0.0000619	Paxs	843.24	Joback Method

dvisc	0.0000791	Paxs	788.34	Joback Method
dvisc	0.0001051	Paxs	733.44	Joback Method
dvisc	0.0001460	Paxs	678.54	Joback Method
dvisc	0.0002150	Paxs	623.64	Joback Method
dvisc	0.0003411	Paxs	568.74	Joback Method
dvisc	0.0005973	Paxs	513.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382311&Units=SI
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

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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