

Diglycolic acid, 2,6-dimethoxyphenyl pentyl ester

Inchi:	InChI=1S/C17H24O7/c1-4-5-6-10-23-15(18)11-22-12-16(19)24-17-13(20-2)8-7-9-14(17)2
InchiKey:	VZJFYFHJXZRHCS-UHFFFAOYSA-N
Formula:	C17H24O7
SMILES:	CCCCCOC(=O)COCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]:	340.37

Physical Properties

Property code	Value	Unit	Source
gf	-597.43	kJ/mol	Joback Method
hf	-1066.88	kJ/mol	Joback Method
hfus	42.19	kJ/mol	Joback Method
hvap	82.58	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.359		Crippen Method
mvol	259.120	ml/mol	McGowan Method
pc	1589.81	kPa	Joback Method
rinpol	2988.00		NIST Webbook
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tb	844.84	K	Joback Method
tc	1046.96	K	Joback Method
tf	543.82	K	Joback Method
vc	0.982	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	788.17	J/molxK	844.84	Joback Method
cpg	802.16	J/molxK	878.53	Joback Method
cpg	814.94	J/molxK	912.21	Joback Method
cpg	826.47	J/molxK	945.90	Joback Method
cpg	836.72	J/molxK	979.59	Joback Method
cpg	845.68	J/molxK	1013.27	Joback Method
cpg	853.30	J/molxK	1046.96	Joback Method
dvisc	0.0002466	Paxs	543.82	Joback Method

dvisc	0.0001561	Paxs	593.99	Joback Method
dvisc	0.0001061	Paxs	644.16	Joback Method
dvisc	0.0000762	Paxs	694.33	Joback Method
dvisc	0.0000573	Paxs	744.50	Joback Method
dvisc	0.0000446	Paxs	794.67	Joback Method
dvisc	0.0000358	Paxs	844.84	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U381906&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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