

Diglycolic acid, 4-acetylphenyl pentyl ester

Inchi:	InChI=1S/C17H22O6/c1-3-4-5-10-22-16(19)11-21-12-17(20)23-15-8-6-14(7-9-15)13(2)18
InchiKey:	IFUMQIBOZFULRN-UHFFFAOYSA-N
Formula:	C17H22O6
SMILES:	CCCCCOC(=O)COCC(=O)Oc1ccc(C(C)=O)cc1
Mol. weight [g/mol]:	322.35

Physical Properties

Property code	Value	Unit	Source
gf	-506.72	kJ/mol	Joback Method
hf	-903.55	kJ/mol	Joback Method
hfus	41.80	kJ/mol	Joback Method
hvap	83.84	kJ/mol	Joback Method
log10ws	-3.33		Crippen Method
logp	2.545		Crippen Method
mcvol	248.950	ml/mol	McGowan Method
pc	1741.91	kPa	Joback Method
rinpol	3048.00		NIST Webbook
rinpol	3048.00		NIST Webbook
tb	848.89	K	Joback Method
tc	1056.41	K	Joback Method
tf	536.77	K	Joback Method
vc	0.952	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	747.93	J/molxK	848.89	Joback Method
cpg	761.17	J/molxK	883.48	Joback Method
cpg	773.26	J/molxK	918.06	Joback Method
cpg	784.21	J/molxK	952.65	Joback Method
cpg	794.03	J/molxK	987.24	Joback Method
cpg	802.71	J/molxK	1021.83	Joback Method
cpg	810.25	J/molxK	1056.41	Joback Method
dvisc	0.0004691	Paxs	536.77	Joback Method

dvisc	0.0002864	Paxs	588.79	Joback Method
dvisc	0.0001894	Paxs	640.81	Joback Method
dvisc	0.0001333	Paxs	692.83	Joback Method
dvisc	0.0000985	Paxs	744.85	Joback Method
dvisc	0.0000758	Paxs	796.87	Joback Method
dvisc	0.0000602	Paxs	848.89	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382700&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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