

Pimelic acid, phenethyl propyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C18H26O4/c1-2-14-21-17(19)11-7-4-8-12-18(20)22-15-13-16-9-5-3-6-10-16/h3-13,15-17,21-22,24-25H,2-4,14,20,23H2,18H3

BWUTVUDSRDGDQJ-UHFFFAOYSA-N

C18H26O4

CCCOC(=O)CCCCC(=O)OCCc1ccccc1

306.40

Physical Properties

Property code	Value	Unit	Source
gf	-254.75	kJ/mol	Joback Method
hf	-667.92	kJ/mol	Joback Method
hfus	41.99	kJ/mol	Joback Method
hvap	76.25	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	3.676		Crippen Method
mcvol	255.600	ml/mol	McGowan Method
pc	1570.96	kPa	Joback Method
rinpol	2322.00		NIST Webbook
rinpol	2322.00		NIST Webbook
tb	790.50	K	Joback Method
tc	989.35	K	Joback Method
tf	463.36	K	Joback Method
vc	0.984	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.94	J/mol×K	790.50	Joback Method
cpg	830.49	J/mol×K	956.21	Joback Method
cpg	818.79	J/mol×K	923.07	Joback Method
cpg	806.11	J/mol×K	889.92	Joback Method
cpg	792.42	J/mol×K	856.78	Joback Method
cpg	777.71	J/mol×K	823.64	Joback Method
cpg	841.23	J/mol×K	989.35	Joback Method
dvisc	0.0000715	Pa×s	790.50	Joback Method

dvisc	0.0000927	Pa×s	735.98	Joback Method
dvisc	0.0001253	Pa×s	681.45	Joback Method
dvisc	0.0001786	Pa×s	626.93	Joback Method
dvisc	0.0002723	Pa×s	572.41	Joback Method
dvisc	0.0004537	Pa×s	517.88	Joback Method
dvisc	0.0008523	Pa×s	463.36	Joback Method

Sources

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=U416496&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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