

Dicyclohexyl pimelate

Inchi:	InChI=1S/C19H32O4/c20-18(22-16-10-4-1-5-11-16)14-8-3-9-15-19(21)23-17-12-6-2-7-13
InchiKey:	WZLROSOQUFRUPA-UHFFFAOYSA-N
Formula:	C19H32O4
SMILES:	O=C(CCCCCC(=O)OC1CCCCC1)OC1CCCCC1
Mol. weight [g/mol]:	324.45

Physical Properties

Property code	Value	Unit	Source
gf	-309.84	kJ/mol	Joback Method
hf	-816.45	kJ/mol	Joback Method
hfus	34.21	kJ/mol	Joback Method
hvap	77.06	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	4.689		Crippen Method
mcvol	271.730	ml/mol	McGowan Method
pc	1550.00	kPa	Joback Method
rinsol	2338.00		NIST Webbook
tb	825.80	K	Joback Method
tc	1041.24	K	Joback Method
tf	462.97	K	Joback Method
vc	1.014	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	902.59	J/molxK	825.80	Joback Method
cpg	922.63	J/molxK	861.71	Joback Method
cpg	941.04	J/molxK	897.61	Joback Method
cpg	957.82	J/molxK	933.52	Joback Method
cpg	973.03	J/molxK	969.43	Joback Method
cpg	986.68	J/molxK	1005.34	Joback Method
cpg	998.80	J/molxK	1041.24	Joback Method
dvisc	0.0012282	Paxs	462.97	Joback Method
dvisc	0.0005688	Paxs	523.44	Joback Method

dvisc	0.0003090	Paxs	583.91	Joback Method
dvisc	0.0001882	Paxs	644.38	Joback Method
dvisc	0.0001248	Paxs	704.86	Joback Method
dvisc	0.0000883	Paxs	765.33	Joback Method
dvisc	0.0000658	Paxs	825.80	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R542491&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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