

Malonic dilactone, alpha-[2-(diethylamino)ethyl]-cis-1(me),3(h),4(h)-c

Inchi: InChI=1S/C19H31NO4/c1-6-20(7-2)11-10-19-14-12-18(5,24-16(19)22)9-8-13(14)17(3,4)2

InchiKey: INHWOYUBJKTBSL-UHFFFAOYSA-N

Formula: C19H31NO4

SMILES: CCN(CC)CCC12C(=O)OC3(C)CCC(C1C3)C(C)(C)OC2=O

Mol. weight [g/mol]: 337.45

Physical Properties

Property code	Value	Unit	Source
gf	-83.48	kJ/mol	Joback Method
hf	-702.40	kJ/mol	Joback Method
hfus	34.32	kJ/mol	Joback Method
hvap	73.63	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	2.772		Crippen Method
mcvol	270.850	ml/mol	McGowan Method
pc	1655.15	kPa	Joback Method
tb	860.51	K	Joback Method
tc	1095.08	K	Joback Method
tf	632.42	K	Joback Method
vc	1.012	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	955.03	J/molxK	860.51	Joback Method
cpg	981.82	J/molxK	899.61	Joback Method
cpg	1009.31	J/molxK	938.70	Joback Method
cpg	1037.89	J/molxK	977.80	Joback Method
cpg	1067.93	J/molxK	1016.89	Joback Method
cpg	1099.81	J/molxK	1055.99	Joback Method
cpg	1133.91	J/molxK	1095.08	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=B6006142&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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