

Methyprylon

Other names:	Dimerin 2,4-Piperidinedione, 3,3-diethyl-5-methyl- Methyprylone Metiprilon Noctan Nodular Noludar Ro 1-6463 Methyprolon Metiprilone 2,4-Dioxy-3,3-diethyl-5-methylpiperidine 3,3-Diethyl-2,4-dioxo-5-methylpiperidine 3,3-Diethyl-5-methyl-2,4-piperidinedione 3,3-Diethyl-5-methylpiperidine-2,4-dione Methprylon 2,4-Dioxo-3,3-diethyl-5-methylpiperidine NSC 30442
Inchi:	InChI=1S/C10H17NO2/c1-4-10(5-2)8(12)7(3)6-11-9(10)13/h7H,4-6H2,1-3H3,(H,11,13)
InchiKey:	SIDLZWOQUZRBRU-UHFFFAOYSA-N
Formula:	C10H17NO2
SMILES:	CCC1(CC)C(=O)NCC(C)C1=O
Mol. weight [g/mol]:	183.25
CAS:	125-64-4

Physical Properties

Property code	Value	Unit	Source
gf	-112.90	kJ/mol	Joback Method
hf	-438.10	kJ/mol	Joback Method
hfus	16.87	kJ/mol	Joback Method
hvap	52.08	kJ/mol	Joback Method
log10ws	-1.66		Crippen Method
logp	1.128		Crippen Method
mcvol	154.020	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
rinpol	1525.00		NIST Webbook
rinpol	1548.00		NIST Webbook
rinpol	1497.00		NIST Webbook

rinpol	1488.00		NIST Webbook
rinpol	1552.00		NIST Webbook
rinpol	1497.00		NIST Webbook
rinpol	1550.00		NIST Webbook
rinpol	1505.00		NIST Webbook
rinpol	1493.00		NIST Webbook
rinpol	1500.00		NIST Webbook
rinpol	1520.00		NIST Webbook
rinpol	1500.00		NIST Webbook
rinpol	1520.00		NIST Webbook
rinpol	1529.00		NIST Webbook
rinpol	1548.00		NIST Webbook
rinpol	1489.00		NIST Webbook
rinpol	1529.00		NIST Webbook
rinpol	1525.00		NIST Webbook
rinpol	1493.00		NIST Webbook
rinpol	1489.00		NIST Webbook
tb	627.51	K	Joback Method
tc	867.87	K	Joback Method
tf	470.97	K	Joback Method
vc	0.577	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	419.09	J/mol×K	627.51	Joback Method
cpg	437.79	J/mol×K	667.57	Joback Method
cpg	455.61	J/mol×K	707.63	Joback Method
cpg	472.60	J/mol×K	747.69	Joback Method
cpg	488.82	J/mol×K	787.75	Joback Method
cpg	504.30	J/mol×K	827.81	Joback Method
cpg	519.12	J/mol×K	867.87	Joback Method

Sources

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=C125644&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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