

# 10-Methyldodecan-4-olide

<b>Inchi:</b>	InChI=1S/C13H24O2/c1-3-11(2)7-5-4-6-8-12-9-10-13(14)15-12/h11-12H,3-10H2,1-2H3
<b>InchiKey:</b>	PVESYPDFVMTIBG-UHFFFAOYSA-N
<b>Formula:</b>	C13H24O2
<b>SMILES:</b>	CCC(C)CCCCC1CCC(=O)O1
<b>Mol. weight [g/mol]:</b>	212.33

## Physical Properties

Property code	Value	Unit	Source
gf	-116.02	kJ/mol	Joback Method
hf	-526.15	kJ/mol	Joback Method
hfus	27.33	kJ/mol	Joback Method
hvap	53.16	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.689		Crippen Method
mvol	190.610	ml/mol	McGowan Method
pc	1971.80	kPa	Joback Method
rinpol	1773.00		NIST Webbook
rinpol	1773.00		NIST Webbook
tb	606.45	K	Joback Method
tc	806.19	K	Joback Method
tf	326.96	K	Joback Method
vc	0.727	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	522.55	J/mol×K	606.45	Joback Method
cpg	541.96	J/mol×K	639.74	Joback Method
cpg	560.39	J/mol×K	673.03	Joback Method
cpg	577.86	J/mol×K	706.32	Joback Method
cpg	594.39	J/mol×K	739.61	Joback Method
cpg	609.98	J/mol×K	772.90	Joback Method
cpg	624.65	J/mol×K	806.19	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370406&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370406&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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