

10-Methylundecan-5-olide

Inchi:	InChI=1S/C12H22O2/c1-10(2)6-3-4-7-11-8-5-9-12(13)14-11/h10-11H,3-9H2,1-2H3
InchiKey:	HORZJHMTLLMPDU-UHFFFAOYSA-N
Formula:	C12H22O2
SMILES:	CC(C)CCCC1CCCC(=O)O1
Mol. weight [g/mol]:	198.30

Physical Properties

Property code	Value	Unit	Source
gf	-136.54	kJ/mol	Joback Method
hf	-511.67	kJ/mol	Joback Method
hfus	22.64	kJ/mol	Joback Method
hvap	51.10	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.298		Crippen Method
mcvol	176.520	ml/mol	McGowan Method
pc	2202.08	kPa	Joback Method
rinpol	1687.00		NIST Webbook
tb	587.84	K	Joback Method
tc	797.25	K	Joback Method
tf	312.17	K	Joback Method
vc	0.662	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.91	J/molxK	587.84	Joback Method
cpg	491.82	J/molxK	622.74	Joback Method
cpg	510.70	J/molxK	657.64	Joback Method
cpg	528.56	J/molxK	692.54	Joback Method
cpg	545.41	J/molxK	727.44	Joback Method
cpg	561.25	J/molxK	762.34	Joback Method
cpg	576.08	J/molxK	797.25	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=U370407&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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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