

2-Cyclohexen-1-one, 4-(1-methylethyl)-

Other names:	4-Isopropylcyclohex-2-enone Crypton Cryptone Cryptone, L- 2-Cyclohexen-1-one, 4-isopropyl- 4-(1-Methylethyl)-2-cyclohexen-1-one 4-Isopropyl-2-cyclohexenone 4-Isopropyl-2-cyclohexen-1-one Kryptone NSC 22060 2-Cyclohexenone, 4-isopropyl Criptone 4-isopropylcyclohex-2-en-1-one
Inchi:	InChI=1S/C9H14O/c1-7(2)8-3-5-9(10)6-4-8/h3,5,7-8H,4,6H2,1-2H3
InchiKey:	AANMVENRNJYEMK-UHFFFAOYSA-N
Formula:	C9H14O
SMILES:	CC(C)C1C=CC(=O)CC1
Mol. weight [g/mol]:	138.21
CAS:	500-02-7

Physical Properties

Property code	Value	Unit	Source
gf	-45.72	kJ/mol	Joback Method
hf	-259.97	kJ/mol	Joback Method
hfus	8.11	kJ/mol	Joback Method
hvap	40.21	kJ/mol	Joback Method
log10ws	-2.13		Crippen Method
logp	2.178		Crippen Method
mcvol	124.080	ml/mol	McGowan Method
pc	3093.29	kPa	Joback Method
rinpol	1178.00		NIST Webbook
rinpol	1151.00		NIST Webbook
rinpol	1165.00		NIST Webbook
rinpol	1163.00		NIST Webbook
rinpol	1177.00		NIST Webbook
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ripol	1690.00		NIST Webbook
ripol	1668.00		NIST Webbook
ripol	1690.00		NIST Webbook
tb	491.41	K	Joback Method
tc	715.76	K	Joback Method
tf	252.55	K	Joback Method
vc	0.460	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	275.08	J/mol×K	491.41	Joback Method
cpg	292.29	J/mol×K	528.80	Joback Method
cpg	308.67	J/mol×K	566.19	Joback Method
cpg	324.21	J/mol×K	603.58	Joback Method
cpg	338.91	J/mol×K	640.98	Joback Method
cpg	352.76	J/mol×K	678.37	Joback Method
cpg	365.78	J/mol×K	715.76	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=C500027&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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