

1-Cyclohexene-1-carboxaldehyde, 2,6,6-trimethyl-

Other names:	«beta»-Cyclocitral 1-Formyl-2,6,6-trimethyl-1-cyclohexene 2,6,6-trimethyl-cyclohexene-1-carboxaldehyde 2,6,6-Trimethyl-1-cyclohexene-1-carboxaldehyde 2,6,6-trimethylcyclohexene-1-carbaldehyde
Inchi:	InChI=1S/C10H16O/c1-8-5-4-6-10(2,3)9(8)7-11/h7H,4-6H2,1-3H3
InchiKey:	MOQGCGNUWBPGTQ-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CC1=C(C=O)C(C)(C)CCC1
Mol. weight [g/mol]:	152.23
CAS:	432-25-7

Physical Properties

Property code	Value	Unit	Source
gf	-36.54	kJ/mol	Joback Method
hf	-230.91	kJ/mol	Joback Method
hfus	9.93	kJ/mol	Joback Method
hvap	45.47	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.712		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinpol	1196.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1190.00		NIST Webbook
rinpol	1194.00		NIST Webbook
rinpol	1200.00		NIST Webbook
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rinpol	1194.00		NIST Webbook
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ripol	1635.00		NIST Webbook
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ripol	1600.00		NIST Webbook
ripol	1638.00		NIST Webbook
tb	505.77	K	Joback Method
tc	720.94	K	Joback Method
tf	301.54	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.28	J/mol×K	505.77	Joback Method
cpg	329.19	J/mol×K	541.63	Joback Method
cpg	344.11	J/mol×K	577.49	Joback Method
cpg	358.15	J/mol×K	613.35	Joback Method
cpg	371.41	J/mol×K	649.21	Joback Method
cpg	383.99	J/mol×K	685.08	Joback Method
cpg	396.00	J/mol×K	720.94	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=C432257&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
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
ripola:	Polar retention indices
tb:	Normal Boiling Point Temperature

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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