

5-Isopropenyl-2-methylcyclopent-1-enecarboxald

Other names:	2-Methyl-5-isopropenyl1-cyclopenten-1-carboxaldehyde
Inchi:	InChI=1S/C10H14O/c1-7(2)9-5-4-8(3)10(9)6-11/h6,9H,1,4-5H2,2-3H3
InchiKey:	ZMGHTPVRMQMFQG-UHFFFAOYSA-N
Formula:	C10H14O
SMILES:	<chem>C=C(C)C1CCC(C)=C1C=O</chem>
Mol. weight [g/mol]:	150.22

Physical Properties

Property code	Value	Unit	Source
gf	60.34	kJ/mol	Joback Method
hf	-124.35	kJ/mol	Joback Method
hfus	15.73	kJ/mol	Joback Method
hvap	45.86	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.488		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	2856.62	kPa	Joback Method
rinpol	1271.00		NIST Webbook
rinpol	1271.00		NIST Webbook
ripol	1691.00		NIST Webbook
ripol	1691.00		NIST Webbook
tb	497.82	K	Joback Method
tc	704.94	K	Joback Method
tf	265.44	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.03	J/molxK	497.82	Joback Method
cpg	309.70	J/molxK	532.34	Joback Method
cpg	323.58	J/molxK	566.86	Joback Method
cpg	336.71	J/molxK	601.38	Joback Method
cpg	349.11	J/molxK	635.90	Joback Method

cpg	360.81	J/mol×K	670.42	Joback Method
cpg	371.85	J/mol×K	704.94	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=U190368&Units=SI

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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