

# 2-Dimethylaminomethylene-4-methyl-3-pentenoic acid, methyl ester

Inchi: nChI=18/C10H17NO2/c1-8(2)6-9(7-11(3)4)10(12)13-5/h6-7H,1-5H3/b9-7+

InchiKey: XOQYXIZPLUWJHB-VQHVLOKHS-A-N

Formula: C10H17NO2

SMILES: COC(=O)C(C=C(C)C)=CN(C)C

Mol. weight [g/mol]: 183.25

CAS: 90978-52-2

## Physical Properties

Property code	Value	Unit	Source
gf	53.52	kJ/mol	Joback Method
hf	-212.14	kJ/mol	Joback Method
hfus	25.25	kJ/mol	Joback Method
hvap	49.13	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.571		Crippen Method
mcvol	160.580	ml/mol	McGowan Method
pc	2450.74	kPa	Joback Method
tb	525.01	K	Joback Method
tc	717.16	K	Joback Method
tf	269.01	K	Joback Method
vc	0.600	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.97	J/molxK	525.01	Joback Method
cpg	381.49	J/molxK	557.04	Joback Method
cpg	395.25	J/molxK	589.06	Joback Method
cpg	408.27	J/molxK	621.09	Joback Method
cpg	420.60	J/molxK	653.11	Joback Method
cpg	432.26	J/molxK	685.14	Joback Method
cpg	443.30	J/molxK	717.16	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<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=C90978522&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C90978522&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>

# 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>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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