

# Propanedinitrile, (acetyloxy)methyl-

<b>Other names:</b>	Tartrononitrile, methyl-, acetate (ester) «alpha», «alpha»-Dicyanoethyl acetate Malononitrile, hydroxymethyl-, acetate (ester) 1-Acetoxy-1,1-dicyanoethane 1-Acetoxy-1,1-dicyanoethane 1,1-Dicyanoethyl acetate 2-Acetoxyisosuccinodinitrile Tartrononitrile, methyl-, acetate Acetic acid 1,1-dicyanoethyl ester 1,1-Dikyanethylester kyseliny octove Methylacetoxymalonitrile Methylacetoxymalononitrile NSC 6394 Propanedinitrile, 2-(acetyloxy)-2-methyl-
<b>Inchi:</b>	InChI=1S/C6H6N2O2/c1-5(9)10-6(2,3-7)4-8/h1-2H3
<b>InchiKey:</b>	OSNAAKXQIFQLNS-UHFFFAOYSA-N
<b>Formula:</b>	C6H6N2O2
<b>SMILES:</b>	CC(=O)OC(C)(C#N)C#N
<b>Mol. weight [g/mol]:</b>	138.12
<b>CAS:</b>	7790-01-4

## Physical Properties

Property code	Value	Unit	Source
gf	34.92	kJ/mol	Joback Method
hf	-90.96	kJ/mol	Joback Method
hfus	9.68	kJ/mol	Joback Method
hvap	57.77	kJ/mol	Joback Method
log10ws	-1.04		Crippen Method
logp	0.355		Crippen Method
mcvol	105.600	ml/mol	McGowan Method
pc	3159.72	kPa	Joback Method
tb	613.90	K	Joback Method
tc	840.26	K	Joback Method
tf	361.94	K	Joback Method
vc	0.436	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.62	J/mol×K	613.90	Joback Method
cpg	246.69	J/mol×K	651.63	Joback Method
cpg	253.25	J/mol×K	689.35	Joback Method
cpg	259.34	J/mol×K	727.08	Joback Method
cpg	264.97	J/mol×K	764.81	Joback Method
cpg	270.16	J/mol×K	802.54	Joback Method
cpg	274.92	J/mol×K	840.26	Joback Method

## Sources

McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7790014&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7790014&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307i">http://pubs.acs.org/doi/abs/10.1021/ci990307i</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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