

# Mecrylate

<b>Other names:</b>	2-Propenoic acid, 2-cyano-, methyl ester Acrylic acid, 2-cyano-, methyl ester «alpha»-Cyanoacrylic acid, methyl ester Adhere Coapt. Cyanolit Eastman 910 Eastman 910 Adhesive Eastman 910 monomer Mecrilat Methyl «alpha»-cyanoacrylate Methyl cyanoacrylate Methyl 2-cyanoacrylate 2-Cyanoacrylic acid, methyl ester Coapt Mecrilate Methyl ester of 2-cyano-2-propenoic acid
<b>Inchi:</b>	InChI=1S/C5H5NO2/c1-4(3-6)5(7)8-2/h1H2,2H3
<b>InchiKey:</b>	MWCLLHOVUTZFKS-UHFFFAOYSA-N
<b>Formula:</b>	C5H5NO2
<b>SMILES:</b>	<chem>C=C(C#N)C(=O)OC</chem>
<b>Mol. weight [g/mol]:</b>	111.10
<b>CAS:</b>	137-05-3

## Physical Properties

Property code	Value	Unit	Source
gf	-30.23	kJ/mol	Joback Method
hf	-110.81	kJ/mol	Joback Method
hfus	10.41	kJ/mol	Joback Method
hvap	45.77	kJ/mol	Joback Method
log10ws	-0.50		Crippen Method
logp	0.239		Crippen Method
mcvol	85.830	ml/mol	McGowan Method
pc	3763.78	kPa	Joback Method
tb	488.73	K	Joback Method
tc	697.66	K	Joback Method
tf	267.54	K	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	166.05	J/mol×K	488.73	Joback Method
cpg	172.53	J/mol×K	523.55	Joback Method
cpg	178.73	J/mol×K	558.37	Joback Method
cpg	184.65	J/mol×K	593.20	Joback Method
cpg	190.28	J/mol×K	628.02	Joback Method
cpg	195.63	J/mol×K	662.84	Joback Method
cpg	200.69	J/mol×K	697.66	Joback Method

## Sources

**Joback Method:**

[https://en.wikipedia.org/wiki/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=C137053&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## 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

**vc:** Critical Volume

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