

# Cyanoacetic acid, decyl ester

<b>Inchi:</b>	InChI=1S/C13H23NO2/c1-2-3-4-5-6-7-8-9-12-16-13(15)10-11-14/h2-10,12H2,1H3
<b>InchiKey:</b>	FEPOSCQQECTWHH-UHFFFAOYSA-N
<b>Formula:</b>	C13H23NO2
<b>SMILES:</b>	CCCCCCCCCOC(=O)CC#N
<b>Mol. weight [g/mol]:</b>	225.33

## Physical Properties

Property code	Value	Unit	Source
gf	-42.16	kJ/mol	Joback Method
hf	-391.57	kJ/mol	Joback Method
hfus	33.72	kJ/mol	Joback Method
hvap	64.17	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.584		Crippen Method
mcvol	202.850	ml/mol	McGowan Method
pc	1672.79	kPa	Joback Method
rinpola	1748.00		NIST Webbook
rinpola	1748.00		NIST Webbook
tb	675.21	K	Joback Method
tc	858.85	K	Joback Method
tf	373.42	K	Joback Method
vc	0.814	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	556.07	J/mol×K	675.21	Joback Method
cpg	570.32	J/mol×K	705.82	Joback Method
cpg	583.88	J/mol×K	736.42	Joback Method
cpg	596.76	J/mol×K	767.03	Joback Method
cpg	608.98	J/mol×K	797.64	Joback Method
cpg	620.55	J/mol×K	828.24	Joback Method
cpg	631.48	J/mol×K	858.85	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406227&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406227&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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>

# 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>hvp:</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>rinp:</b>	Non-polar retention indices
<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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