

# Urea, N,N'-di-2-propenyl-

<b>Other names:</b>	Urea, 1,3-diallyl- N,N'-Diallylurea 1,3-Diallylurea DAU Diallyl-urea Sinapoline
<b>Inchi:</b>	InChI=1S/C7H12N2O/c1-3-5-8-7(10)9-6-4-2/h3-4H,1-2,5-6H2,(H2,8,9,10)
<b>InchiKey:</b>	QRWVOJLTHSRPOA-UHFFFAOYSA-N
<b>Formula:</b>	C7H12N2O
<b>SMILES:</b>	C=CCNC(=O)NCC=C
<b>Mol. weight [g/mol]:</b>	140.18
<b>CAS:</b>	1801-72-5

## Physical Properties

Property code	Value	Unit	Source
gf	233.60	kJ/mol	Joback Method
hf	57.41	kJ/mol	Joback Method
hfus	23.12	kJ/mol	Joback Method
hvap	49.45	kJ/mol	Joback Method
log10ws	-1.59		Crippen Method
logp	0.658		Crippen Method
mcvol	122.420	ml/mol	McGowan Method
pc	3392.03	kPa	Joback Method
tb	507.13	K	Joback Method
tc	697.35	K	Joback Method
tf	320.38	K	Joback Method
vc	0.466	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.17	J/mol×K	507.13	Joback Method
cpg	280.19	J/mol×K	538.83	Joback Method
cpg	290.62	J/mol×K	570.54	Joback Method

cpg	300.49	J/mol×K	602.24	Joback Method
cpg	309.82	J/mol×K	633.94	Joback Method
cpg	318.65	J/mol×K	665.65	Joback Method
cpg	326.98	J/mol×K	697.35	Joback Method

## Sources

<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=C1801725&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1801725&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

## 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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