

# Isopropalin

<b>Other names:</b>	Benzenamine, 4-(1-methylethyl)-2,6-dinitro-N,N-dipropyl- Cumidine, 2,6-dinitro-N,N-dipropyl- EL 179 Paarlan
<b>Inchi:</b>	InChI=1S/C15H23N3O4/c1-5-7-16(8-6-2)15-13(17(19)20)9-12(11(3)4)10-14(15)18(21)22
<b>InchiKey:</b>	NEKOWSIMFDGMA-UHFFFAOYSA-N
<b>Formula:</b>	C15H23N3O4
<b>SMILES:</b>	CCCN(CCC)c1c([N+](=O)[O-])cc(C(C)C)cc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	309.36
<b>CAS:</b>	33820-53-0

## Physical Properties

Property code	Value	Unit	Source
gf	338.38	kJ/mol	Joback Method
hf	-110.08	kJ/mol	Joback Method
hfus	49.70	kJ/mol	Joback Method
hvap	88.08	kJ/mol	Joback Method
log10ws	-6.49		Aqueous Solubility Prediction Method
log10ws	-6.49		Estimated Solubility Method
logp	4.253		Crippen Method
mcvol	243.270	ml/mol	McGowan Method
pc	1823.17	kPa	Joback Method
rinpola	2027.00		NIST Webbook
rinpola	2027.00		NIST Webbook
rinpola	2034.00		NIST Webbook
tb	899.90	K	Joback Method
tc	1135.65	K	Joback Method
tf	627.48	K	Joback Method
vc	0.944	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	763.83	J/mol×K	899.90	Joback Method
cpg	777.50	J/mol×K	939.19	Joback Method
cpg	790.10	J/mol×K	978.48	Joback Method
cpg	801.70	J/mol×K	1017.78	Joback Method
cpg	812.38	J/mol×K	1057.07	Joback Method
cpg	822.19	J/mol×K	1096.36	Joback Method
cpg	831.22	J/mol×K	1135.65	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=C33820530&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33820530&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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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>rinpol:</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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