

# Isoaminile

<b>Other names:</b>	Benzeneacetonitrile, «alpha»-[2-(dimethylamino)propyl]-«alpha»-(1-methylethyl)-Valeronitrile, 4-(dimethylamino)-2-isopropyl-2-phenyl-«alpha»-[«beta»-(Dimethylamino)propyl]-«alpha»-isopropylphenylacetonitrile «alpha»-Isopropyl-«alpha»-[2-(dimethylamino)propyl]phenylacetonitrile Aprecon Dimyrl Isoaminil Nullatuss TAT-1 4-Dimethylamino-2-isopropyl-2-phenylvaleronitrile
<b>Inchi:</b>	InChI=1S/C16H24N2/c1-13(2)16(12-17,11-14(3)18(4)5)15-9-7-6-8-10-15/h6-10,13-14H,1
<b>InchiKey:</b>	WFLSCFISQHLEED-UHFFFAOYSA-N
<b>Formula:</b>	C16H24N2
<b>SMILES:</b>	CC(CC(C#N)(c1ccccc1)C(C)C)N(C)C
<b>Mol. weight [g/mol]:</b>	244.38
<b>CAS:</b>	77-51-0

## Physical Properties

Property code	Value	Unit	Source
gf	438.17	kJ/mol	Joback Method
hf	76.06	kJ/mol	Joback Method
hfus	21.30	kJ/mol	Joback Method
hvap	63.94	kJ/mol	Joback Method
log10ws	-3.60		Crippen Method
logp	3.444		Crippen Method
mcvol	223.900	ml/mol	McGowan Method
pc	1714.61	kPa	Joback Method
rinpol	1830.00		NIST Webbook
rinpol	1830.00		NIST Webbook
tb	702.57	K	Joback Method
tc	920.71	K	Joback Method
tf	366.38	K	Joback Method
vc	0.845	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.88	J/mol×K	702.57	Joback Method
cpg	648.31	J/mol×K	738.93	Joback Method
cpg	664.53	J/mol×K	775.28	Joback Method
cpg	679.64	J/mol×K	811.64	Joback Method
cpg	693.70	J/mol×K	848.00	Joback Method
cpg	706.83	J/mol×K	884.35	Joback Method
cpg	719.10	J/mol×K	920.71	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C77510&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C77510&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.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>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>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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