

# Butanenitrile, 4-(dipropylamino)-

<b>Other names:</b>	4-Di-n-propylaminobutyronitrile 4-dipropylaminobutyronitrile
<b>Inchi:</b>	InChI=1S/C10H20N2/c1-3-8-12(9-4-2)10-6-5-7-11/h3-6,8-10H2,1-2H3
<b>InchiKey:</b>	FLJPZKPNJVGMHO-UHFFFAOYSA-N
<b>Formula:</b>	C10H20N2
<b>SMILES:</b>	CCCN(CCC)CCCC#N
<b>Mol. weight [g/mol]:</b>	168.28
<b>CAS:</b>	70288-99-2

## Physical Properties

Property code	Value	Unit	Source
gf	277.28	kJ/mol	Joback Method
hf	-17.32	kJ/mol	Joback Method
hfus	26.18	kJ/mol	Joback Method
hvap	50.38	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.412		Crippen Method
mcvol	163.120	ml/mol	McGowan Method
pc	2056.76	kPa	Joback Method
tb	542.72	K	Joback Method
tc	722.16	K	Joback Method
tf	299.92	K	Joback Method
vc	0.639	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.58	J/molxK	542.72	Joback Method
cpg	408.66	J/molxK	572.63	Joback Method
cpg	422.10	J/molxK	602.53	Joback Method
cpg	434.91	J/molxK	632.44	Joback Method
cpg	447.11	J/molxK	662.34	Joback Method
cpg	458.73	J/molxK	692.25	Joback Method
cpg	469.79	J/molxK	722.16	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C70288992&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C70288992&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>

# 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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