

# di-t-Butylhydrazodicarboxylate

<b>Other names:</b>	1,2-Hydrazinedicarboxylic acid, bis(1,1-dimethylethyl) ester Di-tert-Butylhydrazodicarboxylate di-tert-butyl bicarbamate
<b>Inchi:</b>	InChI=1S/C10H20N2O4/c1-9(2,3)15-7(13)11-12-8(14)16-10(4,5)6/h1-6H3,(H,11,13)(H,12)
<b>InchiKey:</b>	TYSZETYVESRFNT-UHFFFAOYSA-N
<b>Formula:</b>	C10H20N2O4
<b>SMILES:</b>	CC(C)(C)OC(=O)NNC(=O)OC(C)(C)C
<b>Mol. weight [g/mol]:</b>	232.28
<b>CAS:</b>	16466-61-8

## Physical Properties

Property code	Value	Unit	Source
gf	-250.06	kJ/mol	Joback Method
hf	-649.89	kJ/mol	Joback Method
hfus	22.60	kJ/mol	Joback Method
hvap	66.45	kJ/mol	Joback Method
log10ws	-3.28		Crippen Method
logp	1.951		Crippen Method
mcvol	186.600	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
tb	674.66	K	Joback Method
tc	875.96	K	Joback Method
tf	456.94	K	Joback Method
vc	0.692	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	526.38	J/molxK	674.66	Joback Method
cpg	540.25	J/molxK	708.21	Joback Method
cpg	553.22	J/molxK	741.76	Joback Method
cpg	565.35	J/molxK	775.31	Joback Method
cpg	576.65	J/molxK	808.86	Joback Method
cpg	587.16	J/molxK	842.41	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C16466618&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16466618&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>

## 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>mccvol:</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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