

# N,N,N',N'-Tetraethylterephthalamide

<b>Other names:</b>	1,4-Benzenedicarboxamide, N,N,N',N'-tetraethyl-
<b>Inchi:</b>	InChI=1S/C16H24N2O2/c1-5-17(6-2)15(19)13-9-11-14(12-10-13)16(20)18(7-3)8-4/h9-12
<b>InchiKey:</b>	GBSCSRXSQKTCPD-UHFFFAOYSA-N
<b>Formula:</b>	C16H24N2O2
<b>SMILES:</b>	CCN(CC)C(=O)c1ccc(C(=O)N(CC)CC)cc1
<b>Mol. weight [g/mol]:</b>	276.37
<b>CAS:</b>	15394-30-6

## Physical Properties

Property code	Value	Unit	Source
gf	150.34	kJ/mol	Joback Method
hf	-238.61	kJ/mol	Joback Method
hfus	40.09	kJ/mol	Joback Method
hvap	71.73	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	2.651		Crippen Method
mcvol	235.640	ml/mol	McGowan Method
pc	1864.33	kPa	Joback Method
tb	729.76	K	Joback Method
tc	930.04	K	Joback Method
tf	473.82	K	Joback Method
vc	0.872	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	673.25	J/molxK	729.76	Joback Method
cpg	689.33	J/molxK	763.14	Joback Method
cpg	704.40	J/molxK	796.52	Joback Method
cpg	718.51	J/molxK	829.90	Joback Method
cpg	731.70	J/molxK	863.28	Joback Method
cpg	744.03	J/molxK	896.66	Joback Method
cpg	755.55	J/molxK	930.04	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C15394306&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15394306&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>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>
<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>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>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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