

# N,N'-Di-(m-trifluoromethylphenyl)urea

<b>Inchi:</b>	InChI=1S/C15H10F6N2O/c16-14(17,18)9-3-1-5-11(7-9)22-13(24)23-12-6-2-4-10(8-12)15
<b>InchiKey:</b>	ASUCRFVOBIZQSN-UHFFFAOYSA-N
<b>Formula:</b>	C15H10F6N2O
<b>SMILES:</b>	O=C(Nc1cccc(C(F)(F)F)c1)Nc1cccc(C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	348.24
<b>CAS:</b>	403-96-3

## Physical Properties

Property code	Value	Unit	Source
gf	-832.34	kJ/mol	Joback Method
hf	-1102.61	kJ/mol	Joback Method
hfus	37.36	kJ/mol	Joback Method
hvap	66.98	kJ/mol	Joback Method
log10ws	-5.68		Crippen Method
logp	5.368		Crippen Method
mcvol	206.840	ml/mol	McGowan Method
pc	2125.60	kPa	Joback Method
tb	749.29	K	Joback Method
tc	956.43	K	Joback Method
tf	500.32	K	Joback Method
vc	0.822	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	594.34	J/molxK	749.29	Joback Method
cpg	605.63	J/molxK	783.81	Joback Method
cpg	615.97	J/molxK	818.34	Joback Method
cpg	625.45	J/molxK	852.86	Joback Method
cpg	634.15	J/molxK	887.38	Joback Method
cpg	642.16	J/molxK	921.90	Joback Method
cpg	649.58	J/molxK	956.43	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=C403963&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C403963&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>hvac:</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>mccol:</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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