

# Glutamic anhydride, n-(trifluoroacetyl)-

<b>Inchi:</b>	InChI=1S/C7H6F3NO4/c8-7(9,10)6(14)11-3-1-2-4(12)15-5(3)13/h3H,1-2H2,(H,11,14)
<b>InchiKey:</b>	MLCDEEZAJG XKJV-UHFFFAOYSA-N
<b>Formula:</b>	C7H6F3NO4
<b>SMILES:</b>	O=C1CCC(NC(=O)C(F)(F)F)C(=O)O1
<b>Mol. weight [g/mol]:</b>	225.12
<b>CAS:</b>	328-13-2

## Physical Properties

Property code	Value	Unit	Source
gf	-919.91	kJ/mol	Joback Method
hf	-1197.08	kJ/mol	Joback Method
hfus	21.24	kJ/mol	Joback Method
hvap	54.04	kJ/mol	Joback Method
log10ws	-1.02		Crippen Method
logp	-0.103		Crippen Method
mcvol	124.500	ml/mol	McGowan Method
pc	3611.55	kPa	Joback Method
tb	640.32	K	Joback Method
tc	864.69	K	Joback Method
tf	445.82	K	Joback Method
vc	0.479	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.94	J/molxK	640.32	Joback Method
cpg	363.37	J/molxK	677.71	Joback Method
cpg	374.91	J/molxK	715.11	Joback Method
cpg	385.56	J/molxK	752.50	Joback Method
cpg	395.29	J/molxK	789.90	Joback Method
cpg	404.08	J/molxK	827.29	Joback Method
cpg	411.91	J/molxK	864.69	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C328132&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C328132&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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

Latest version available from:

<https://www.chemeo.com/cid/30-614-6/Glutamic-anhydride-n-trifluoroacetyl.pdf>

Generated by Cheméo on 2024-04-26 14:58:33.397411051 +0000 UTC m=+16432762.317988364.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.