

# 2-(Bis(trifluoroacetyl)amino)phenyl trifluoroacetate

<b>Other names:</b>	o-Aminophenol, N,N,O-tris(trifluoroacetyl)-
<b>Inchi:</b>	InChI=1S/C12H4F9NO4/c13-10(14,15)7(23)22(8(24)11(16,17)18)5-3-1-2-4-6(5)26-9(25)
<b>InchiKey:</b>	AKOGAMFZGCLQDM-UHFFFAOYSA-N
<b>Formula:</b>	C12H4F9NO4
<b>SMILES:</b>	O=C(Oc1ccccc1N(C(=O)C(F)(F)F)C(=O)C(F)(F)F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	397.15

## Physical Properties

Property code	Value	Unit	Source
gf	-1972.81	kJ/mol	Joback Method
hf	-2259.62	kJ/mol	Joback Method
hfus	34.97	kJ/mol	Joback Method
hvap	58.69	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	3.139		Crippen Method
mvol	192.670	ml/mol	McGowan Method
pc	2007.30	kPa	Joback Method
rinpol	1114.00		NIST Webbook
rinpol	1114.00		NIST Webbook
tb	685.83	K	Joback Method
tc	864.56	K	Joback Method
tf	481.00	K	Joback Method
vc	0.782	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	544.79	J/molxK	685.83	Joback Method
cpg	553.81	J/molxK	715.62	Joback Method
cpg	562.05	J/molxK	745.41	Joback Method
cpg	569.56	J/molxK	775.19	Joback Method
cpg	576.39	J/molxK	804.98	Joback Method
cpg	582.61	J/molxK	834.77	Joback Method
cpg	588.27	J/molxK	864.56	Joback Method

# Sources

<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=U373274&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373274&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.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>

# 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>h vap:</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>r in pol:</b>	Non-polar retention indices
<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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