

# Benzeneacetic acid, 3,5-bis(trifluoromethyl)-

<b>Other names:</b>	3,5-bis(trifluoromethyl)phenylacetic acid
<b>Inchi:</b>	InChI=1S/C10H6F6O2/c11-9(12,13)6-1-5(3-8(17)18)2-7(4-6)10(14,15)16/h1-2,4H,3H2,(H
<b>InchiKey:</b>	PAWSKKHEEYTXSA-UHFFFAOYSA-N
<b>Formula:</b>	C10H6F6O2
<b>SMILES:</b>	O=C(O)Cc1cc(C(F)(F)F)cc(C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	272.14
<b>CAS:</b>	85068-33-3

## Physical Properties

Property code	Value	Unit	Source
gf	-1302.45	kJ/mol	Joback Method
hf	-1495.11	kJ/mol	Joback Method
hfus	24.26	kJ/mol	Joback Method
hvap	57.39	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	3.351		Crippen Method
mcvol	146.060	ml/mol	McGowan Method
pc	2619.09	kPa	Joback Method
tb	600.05	K	Joback Method
tc	774.07	K	Joback Method
tf	373.05	K	Joback Method
vc	0.599	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	382.29	J/molxK	600.05	Joback Method
cpg	391.29	J/molxK	629.05	Joback Method
cpg	399.65	J/molxK	658.06	Joback Method
cpg	407.42	J/molxK	687.06	Joback Method
cpg	414.63	J/molxK	716.06	Joback Method
cpg	421.32	J/molxK	745.07	Joback Method
cpg	427.52	J/molxK	774.07	Joback Method

# Sources

<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>
<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=C85068333&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C85068333&amp;Units=SI</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>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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