

# 4-tert-Butylcatechol, bis(trifluoroacetate)

<b>Other names:</b>	Pyrocatechol, 5-tert.-butyl, bis-TFA
<b>Inchi:</b>	InChI=1S/C14H12F6O4/c1-12(2,3)7-4-5-8(23-10(21)13(15,16)17)9(6-7)24-11(22)14(18,19)20
<b>InchiKey:</b>	CGEZWQNDCPALEZ-UHFFFAOYSA-N
<b>Formula:</b>	C14H12F6O4
<b>SMILES:</b>	CC(C)(C)c1ccc(OC(=O)C(F)(F)F)c(OC(=O)C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	358.23

## Physical Properties

Property code	Value	Unit	Source
gf	-1468.03	kJ/mol	Joback Method
hf	-1811.21	kJ/mol	Joback Method
hfus	27.09	kJ/mol	Joback Method
hvap	59.88	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	3.919		Crippen Method
mcvol	209.860	ml/mol	McGowan Method
pc	1762.45	kPa	Joback Method
rinpol	1260.00		NIST Webbook
rinpol	1260.00		NIST Webbook
tb	694.87	K	Joback Method
tc	884.41	K	Joback Method
tf	454.12	K	Joback Method
vc	0.835	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	594.84	J/mol×K	694.87	Joback Method
cpg	606.80	J/mol×K	726.46	Joback Method
cpg	617.89	J/mol×K	758.05	Joback Method
cpg	628.14	J/mol×K	789.64	Joback Method
cpg	637.62	J/mol×K	821.23	Joback Method
cpg	646.37	J/mol×K	852.82	Joback Method
cpg	654.43	J/mol×K	884.41	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U365441&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U365441&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.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>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>rinp:</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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