

# Pyrogallol, tris(trifluoroacetate)

**Inchi:** InChI=1S/C12H3F9O6/c13-10(14,15)7(22)25-4-2-1-3-5(26-8(23)11(16,17)18)6(4)27-9(24)  
**InchiKey:** LVGFRJNVXPPMBM-UHFFFAOYSA-N  
**Formula:** C12H3F9O6  
**SMILES:** O=C(Oc1cccc(OC(=O)C(F)(F)F)c1OC(=O)C(F)(F)F)C(F)(F)F  
**Mol. weight [g/mol]:** 414.13

## Physical Properties

Property code	Value	Unit	Source
gf	-2303.22	kJ/mol	Joback Method
hf	-2603.06	kJ/mol	Joback Method
hfus	33.94	kJ/mol	Joback Method
hvap	62.13	kJ/mol	Joback Method
log10ws	-4.40		Crippen Method
logp	3.090		Crippen Method
mvol	194.430	ml/mol	McGowan Method
pc	1925.36	kPa	Joback Method
rinpol	1079.00		NIST Webbook
rinpol	1079.00		NIST Webbook
tb	723.21	K	Joback Method
tc	904.30	K	Joback Method
tf	505.51	K	Joback Method
vc	0.800	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	552.97	J/mol×K	723.21	Joback Method
cpg	561.18	J/mol×K	753.39	Joback Method
cpg	568.68	J/mol×K	783.57	Joback Method
cpg	575.51	J/mol×K	813.75	Joback Method
cpg	581.68	J/mol×K	843.93	Joback Method
cpg	587.24	J/mol×K	874.11	Joback Method
cpg	592.21	J/mol×K	904.30	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=U375769&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375769&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>

# 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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