

# Hydroquinone, TFA-PFP

<b>Inchi:</b>	InChI=1S/C11H4F8O4/c12-9(13,11(17,18)19)7(20)22-5-1-3-6(4-2-5)23-8(21)10(14,15)16
<b>InchiKey:</b>	RAILUGWJNHNXLD-UHFFFAOYSA-N
<b>Formula:</b>	C11H4F8O4
<b>SMILES:</b>	O=C(Oc1ccc(OC(=O)C(F)(F)C(F)(F)F)cc1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	352.13

## Physical Properties

Property code	Value	Unit	Source
gf	-1873.28	kJ/mol	Joback Method
hf	-2130.04	kJ/mol	Joback Method
hfus	25.87	kJ/mol	Joback Method
hvap	50.91	kJ/mol	Joback Method
log10ws	-4.16		Crippen Method
logp	3.257		Crippen Method
mvol	171.130	ml/mol	McGowan Method
pc	2125.60	kPa	Joback Method
rmpol	1060.00		NIST Webbook
rmpol	1060.00		NIST Webbook
tb	619.79	K	Joback Method
tc	798.95	K	Joback Method
tf	408.97	K	Joback Method
vc	0.703	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.50	J/mol×K	619.79	Joback Method
cpg	472.36	J/mol×K	649.65	Joback Method
cpg	481.46	J/mol×K	679.51	Joback Method
cpg	489.82	J/mol×K	709.37	Joback Method
cpg	497.49	J/mol×K	739.23	Joback Method
cpg	504.51	J/mol×K	769.09	Joback Method
cpg	510.92	J/mol×K	798.95	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=R335476&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R335476&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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