

# perfluoro-2,2,4-trimethylpentane

<b>Inchi:</b>	InChI=1S/C8F18/c9-2(7(21,22)23,8(24,25)26)3(10,11)1(4(12,13)14,5(15,16)17)6(18,19)2
<b>InchiKey:</b>	GTTNGNCJHFPTQV-UHFFFAOYSA-N
<b>Formula:</b>	C8F18
<b>SMILES:</b>	FC(F)(F)C(F)(C(F)(F)F)C(F)(F)C(C(F)(F)F)(C(F)(F)F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	438.06

## Physical Properties

Property code	Value	Unit	Source
gf	-3467.38	kJ/mol	Joback Method
hf	-3808.43	kJ/mol	Joback Method
hfus	12.60	kJ/mol	Joback Method
hvap	8.33	kJ/mol	Joback Method
log10ws	-6.52		Crippen Method
logp	6.128		Crippen Method
mcvol	155.440	ml/mol	McGowan Method
pc	1430.46	kPa	Joback Method
rinpola	221.00		NIST Webbook
tb	343.46	K	Joback Method
tc	449.37	K	Joback Method
tf	209.90	K	Joback Method
vc	0.720	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.72	J/mol×K	343.46	Joback Method
cpg	389.83	J/mol×K	361.11	Joback Method
cpg	403.16	J/mol×K	378.76	Joback Method
cpg	415.73	J/mol×K	396.41	Joback Method
cpg	427.56	J/mol×K	414.06	Joback Method
cpg	438.69	J/mol×K	431.72	Joback Method
cpg	449.13	J/mol×K	449.37	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.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=R206818&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R206818&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>hvap:</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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