

# N-(2,3,5,6-Tetrachlorophenyl)-2,2,3,3,4,4,4-heptafluorobutyryl

<b>Other names:</b>	2,3,5,6-Tetrachloroaniline, N-heptanfluorobutyryl-
<b>Inchi:</b>	InChI=1S/C10H2Cl4F7NO/c11-2-1-3(12)5(14)6(4(2)13)22-7(23)8(15,16)9(17,18)10(19,20)
<b>InchiKey:</b>	SKPPZZKSFHCXOB-UHFFFAOYSA-N
<b>Formula:</b>	C10H2Cl4F7NO
<b>SMILES:</b>	O=C(Nc1c(Cl)c(Cl)cc(Cl)c1Cl)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	426.93

## Physical Properties

Property code	Value	Unit	Source
gf	-1335.19	kJ/mol	Joback Method
hf	-1580.17	kJ/mol	Joback Method
hfus	36.94	kJ/mol	Joback Method
hvap	63.89	kJ/mol	Joback Method
log10ws	-6.54		Crippen Method
logp	6.072		Crippen Method
mvol	200.900	ml/mol	McGowan Method
pc	1998.33	kPa	Joback Method
rinpol	1702.00		NIST Webbook
tb	713.76	K	Joback Method
tc	916.74	K	Joback Method
tf	512.62	K	Joback Method
vc	0.818	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	477.17	J/molxK	713.76	Joback Method
cpg	483.82	J/molxK	747.59	Joback Method
cpg	489.81	J/molxK	781.42	Joback Method
cpg	495.20	J/molxK	815.25	Joback Method
cpg	500.07	J/molxK	849.08	Joback Method
cpg	504.50	J/molxK	882.91	Joback Method
cpg	508.55	J/molxK	916.74	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=U373258&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373258&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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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