

# 2-Methylbenzene-1,4-diamine, tris(pentafluoropropionyl)-, isomer 2

<b>Inchi:</b>	InChI=1S/C16H7F15N2O3/c1-5-4-6(2-3-7(5)32-8(34)11(17,18)14(23,24)25)33(9(35)12(1
<b>InchiKey:</b>	HRROJGCPNHUQJB-UHFFFAOYSA-N
<b>Formula:</b>	C16H7F15N2O3
<b>SMILES:</b>	Cc1cc(N(C(=O)C(F)(F)C(F)(F)F)C(=O)C(F)(F)C(F)(F)F)ccc1NC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	560.21

## Physical Properties

Property code	Value	Unit	Source
gf	-2914.71	kJ/mol	Joback Method
hf	-3370.87	kJ/mol	Joback Method
hfus	45.09	kJ/mol	Joback Method
hvap	63.50	kJ/mol	Joback Method
log10ws	-6.63		Crippen Method
logp	5.386		Crippen Method
mvol	263.760	ml/mol	McGowan Method
pc	1262.85	kPa	Joback Method
rinpol	1426.00		NIST Webbook
rinpol	1426.00		NIST Webbook
tb	796.01	K	Joback Method
tc	975.90	K	Joback Method
tf	579.83	K	Joback Method
vc	1.099	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	829.03	J/mol×K	796.01	Joback Method
cpg	837.72	J/mol×K	825.99	Joback Method
cpg	845.67	J/mol×K	855.97	Joback Method
cpg	852.98	J/mol×K	885.96	Joback Method
cpg	859.78	J/mol×K	915.94	Joback Method
cpg	866.17	J/mol×K	945.92	Joback Method
cpg	872.26	J/mol×K	975.90	Joback Method

# Sources

<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.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>
<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=U378214&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378214&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>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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