

# N,N-Diethyl-2,3,3,3-tetrafluoropropionamide

<b>Inchi:</b>	InChI=1S/C7H11F4NO/c1-3-12(4-2)6(13)7(10,11)5(8)9/h5H,3-4H2,1-2H3
<b>InchiKey:</b>	OIZFBXRWENZGCS-UHFFFAOYSA-N
<b>Formula:</b>	C7H11F4NO
<b>SMILES:</b>	CCN(CC)C(=O)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	201.16
<b>CAS:</b>	392-63-2

## Physical Properties

Property code	Value	Unit	Source
gf	-788.92	kJ/mol	Joback Method
hf	-1031.33	kJ/mol	Joback Method
hfus	19.89	kJ/mol	Joback Method
hvap	35.01	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	1.755		Crippen Method
mcvol	128.120	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
tb	419.28	K	Joback Method
tc	574.11	K	Joback Method
tf	240.83	K	Joback Method
vc	0.506	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.81	J/mol×K	419.28	Joback Method
cpg	291.54	J/mol×K	445.09	Joback Method
cpg	302.70	J/mol×K	470.89	Joback Method
cpg	313.31	J/mol×K	496.70	Joback Method
cpg	323.38	J/mol×K	522.50	Joback Method
cpg	332.94	J/mol×K	548.31	Joback Method
cpg	342.00	J/mol×K	574.11	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	331.00	K	0.70	NIST Webbook

## Sources

Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C392632&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C392632&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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