

# 2-(2-Methoxyethoxy)ethyl 2,2,3,3,3-pentafluoropropanoate

<b>Other names:</b>	Diethylene glycol monomethyl ether, pentafluoropropionate 3,6-Dioxahept-1-yl pentafluoropropionate
<b>Inchi:</b>	InChI=1S/C8H11F5O4/c1-15-2-3-16-4-5-17-6(14)7(9,10)8(11,12)13/h2-5H2,1H3
<b>InchiKey:</b>	PJEQFSMFVXFBJX-UHFFFAOYSA-N
<b>Formula:</b>	C8H11F5O4
<b>SMILES:</b>	COCCOCCOC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	266.16

## Physical Properties

Property code	Value	Unit	Source
gf	-1395.81	kJ/mol	Joback Method
hf	-1715.74	kJ/mol	Joback Method
hfus	22.21	kJ/mol	Joback Method
hvap	40.70	kJ/mol	Joback Method
log10ws	-1.18		Crippen Method
logp	1.390		Crippen Method
mcvol	151.610	ml/mol	McGowan Method
pc	2141.36	kPa	Joback Method
rinpol	990.60		NIST Webbook
rinpol	990.60		NIST Webbook
tb	493.46	K	Joback Method
tc	648.14	K	Joback Method
tf	304.33	K	Joback Method
vc	0.612	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.51	J/molxK	493.46	Joback Method
cpg	386.57	J/molxK	519.24	Joback Method
cpg	397.15	J/molxK	545.02	Joback Method
cpg	407.26	J/molxK	570.80	Joback Method
cpg	416.91	J/molxK	596.58	Joback Method
cpg	426.12	J/molxK	622.36	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.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=U351981&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U351981&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>mcvol:</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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