

# Benfuracarb

<b>Other names:</b>	Oncol Oncol 10G
<b>Inchi:</b>	8-Oxa-3-thia-2,4-diazadecanoic acid, 2-methyl-4-(1-methylethyl)-7-oxo-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester InChI=1S/C20H30N2O5S/c1-7-25-17(23)11-12-22(14(2)3)28-21(6)19(24)26-16-10-8-9-1
<b>InchiKey:</b>	FYZBOYWSHKHDMT-UHFFFAOYSA-N
<b>Formula:</b>	C20H30N2O5S
<b>SMILES:</b>	CCOC(=O)CCN(SN(C)C(=O)Oc1cccc2c1OC(C)(C)C2)C(C)C
<b>Mol. weight [g/mol]:</b>	410.53
<b>CAS:</b>	82560-54-1

## Physical Properties

Property code	Value	Unit	Source
gf	-35.79	kJ/mol	Joback Method
hf	-604.45	kJ/mol	Joback Method
hfus	52.86	kJ/mol	Joback Method
hvap	95.81	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	4.057		Crippen Method
mcvol	315.100	ml/mol	McGowan Method
pc	1528.27	kPa	Joback Method
tb	973.37	K	Joback Method
tc	1200.62	K	Joback Method
tf	663.69	K	Joback Method
vc	1.155	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1038.39	J/molxK	973.37	Joback Method
cpg	1056.78	J/molxK	1011.25	Joback Method
cpg	1074.94	J/molxK	1049.12	Joback Method
cpg	1093.03	J/molxK	1087.00	Joback Method
cpg	1111.22	J/molxK	1124.87	Joback Method
cpg	1129.68	J/molxK	1162.75	Joback Method

## Sources

<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=C82560541&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C82560541&amp;Units=SI</a>
<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>

## 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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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