Methoxyacetamide, N,N-dinonyl-

Inchi: InChI=1S/C21H43NO2/c1-4-6-8-10-12-14-16-18-22(21(23)20-24-3)19-17-15-13-11-9-7-5
InchiKey: SBRAYXAXJLPDHZ-UHFFFAOYSA-N
Formula: C21H43NO2
SMILES: CCCCCCCCCN(CCCCCCCCC)C(=O)COC
Mol. weight [g/mol]: 341.57

Physical Properties

Property code	Value	Unit	Source
gf	2.80	kJ/mol	Joback Method
hf	-654.04	kJ/mol	Joback Method
hfus	55.95	kJ/mol	Joback Method
hvap	73.54	kJ/mol	Joback Method
log10ws	-6.05		Crippen Method
logp	5.963		Crippen Method
mcvol	324.170	ml/mol	McGowan Method
pc	982.69	kPa	Joback Method
rinpol	2439.00		NIST Webbook
tb	768.61	K	Joback Method
tc	943.57	K	Joback Method
tf	431.06	K	Joback Method
vc	1.254	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1013.10	J/mol×K	768.61	Joback Method
cpg	1033.42	J/mol×K	797.77	Joback Method
cpg	1052.73	J/mol×K	826.93	Joback Method
cpg	1071.06	J/mol×K	856.09	Joback Method
cpg	1088.45	J/mol×K	885.25	Joback Method
cpg	1104.92	J/mol×K	914.41	Joback Method
cpg	1120.51	J/mol×K	943.57	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308497&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume