

# Profluralin

<b>Other names:</b>	Benzenamine, N-(cyclopropylmethyl)-2,6-dinitro-N-propyl-4-(trifluoromethyl)-p-Toluidine, N-(cyclopropylmethyl)-«alpha»,«alpha»,«alpha»-trifluoro-2,6-dinitro-N-propyl- CG-10832 CGA 10832 ER 5461 SGA 10832 Tolban Profluraline N-(Cyclopropylmethyl)-2,6-dinitro-n-propyl-4-(trifluoromethyl)aniline B 4576 N-Cyclopropylmethyl-N-n-propyl-4-trifluoromethyl-2,6-dinitroaniline Pregard N-(cyclopropylmethyl)-2,6-dinitro-N-propyl-4-(trifluoromethyl)benzenamine
<b>Inchi:</b>	InChI=1S/C14H16F3N3O4/c1-2-5-18(8-9-3-4-9)13-11(19(21)22)6-10(14(15,16)17)7-12(1
<b>InchiKey:</b>	ITVQAKZNYJEWKS-UHFFFAOYSA-N
<b>Formula:</b>	C14H16F3N3O4
<b>SMILES:</b>	CCCN(CC1CC1)c1c([N+](=O)[O-])cc(C(F)(F)F)cc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	347.29
<b>CAS:</b>	26399-36-0

## Physical Properties

Property code	Value	Unit	Source
gf	-188.44	kJ/mol	Joback Method
hf	-608.44	kJ/mol	Joback Method
hfus	50.59	kJ/mol	Joback Method
hvap	82.41	kJ/mol	Joback Method
log10ws	-5.53		Crippen Method
logp	4.148		Crippen Method
mcvol	223.630	ml/mol	McGowan Method
pc	1992.98	kPa	Joback Method
tb	878.78	K	Joback Method
tc	1111.41	K	Joback Method
tf	307.90 ± 0.20	K	NIST Webbook
vc	0.893	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	711.32	J/molxK	878.78	Joback Method
cpg	723.46	J/molxK	917.55	Joback Method
cpg	734.82	J/molxK	956.32	Joback Method
cpg	745.55	J/molxK	995.09	Joback Method
cpg	755.76	J/molxK	1033.86	Joback Method
cpg	765.59	J/molxK	1072.64	Joback Method
cpg	775.16	J/molxK	1111.41	Joback Method
hfust	22.51	kJ/mol	305.80	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C26399360&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C26399360&amp;Units=SI</a>
<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>

## 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>hfust:</b>	Enthalpy of fusion at a given temperature
<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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