

# Fluchloralin

**Other names:**

Benzenamine, N-(2-chloroethyl)-2,6-dinitro-N-propyl-4-(trifluoromethyl)-  
p-Toluidine,  
N-(2-chloroethyl)-«alpha», «alpha», «alpha»-trifluoro-2,6-dinitro-N-propyl-  
Basalin  
BAS 392 04 H  
BAS 3921  
BAS 3921 H  
BAS 3924H  
p-Toluidine,  
N-(2-chloroethyl)-2,6-dinitro-N-propyl-«alpha», «alpha», «alpha»-trifluoro-  
BAS 3920  
BAS 3922  
N-(2-Chloroethyl)-2,6-dinitro-N-propyl-4-(trifluoromethyl)aniline  
N-(2-Chloroethyl)-2,6-dinitro-N-propyl-4-(trifluoromethyl)benzenamine  
N-(2-Chloroethyl)-«alpha», «alpha», «alpha»-trifluoro-2,6-dinitro-N-propyl-p-toluidine  
N-Propyl-N-(2-chloroethyl)-2,6-dinitro-4-trifluoromethylaniline  
N-Propyl-N-(2-chloroethyl)-«alpha», «alpha», «alpha»-trifluoro-2,6-dinitro-p-toluidine  
N-(2-chloroethyl)-2,6-dinitro-N-propyl-4-(trifluoromethyl)benzeneamine

**Inchi:**

InChI=1S/C12H13ClF3N3O4/c1-2-4-17(5-3-13)11-9(18(20)21)6-8(12(14,15)16)7-10(11)1

**InchiKey:**

MNFMIVVPXOGUMX-UHFFFAOYSA-N

**Formula:**

C12H13ClF3N3O4

**SMILES:**

CCCN(CCCl)c1c([N+](=O)[O-])cc(C(F)(F)F)cc1[N+](=O)[O-]

**Mol. weight [g/mol]:**

355.70

**CAS:**

33245-39-5

## Physical Properties

Property code	Value	Unit	Source
gf	-277.96	kJ/mol	Joback Method
hf	-655.70	kJ/mol	Joback Method
hfus	51.48	kJ/mol	Joback Method
hvap	82.43	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	3.977		Crippen Method
mcvol	218.550	ml/mol	McGowan Method
pc	2038.23	kPa	Joback Method
tb	863.71	K	Joback Method
tc	1093.61	K	Joback Method
tf	320.88 ± 0.20	K	NIST Webbook
vc	0.874	m <sup>3</sup> /kmol	Joback Method

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# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	683.18	J/mol×K	1055.29	Joback Method
cpg	639.45	J/mol×K	863.71	Joback Method
cpg	649.63	J/mol×K	902.03	Joback Method
cpg	659.01	J/mol×K	940.34	Joback Method
cpg	667.67	J/mol×K	978.66	Joback Method
cpg	675.70	J/mol×K	1016.98	Joback Method
cpg	690.21	J/mol×K	1093.61	Joback Method
hfust	23.08	kJ/mol	318.40	NIST Webbook

## Sources

<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=C33245395&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C33245395&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>

## 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>hvac:</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

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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