

# P-phenylazo carbanilic acid, alpha-fenchyl ester

**Inchi:** InChI=1S/C23H27N3O2/c1-22(2)16-13-14-23(3,15-16)20(22)28-21(27)24-17-9-11-19(12)  
**InchiKey:** XGYMCAYACKAZLC-UHFFFAOYSA-N  
**Formula:** C23H27N3O2  
**SMILES:** CC12CCC(C1)C(C)(C)C2OC(=O)Nc1ccc(N=Nc2ccccc2)cc1  
**Mol. weight [g/mol]:** 377.48  
**CAS:** 133371-97-8

## Physical Properties

Property code	Value	Unit	Source
hf	-71.33	kJ/mol	Joback Method
hvap	91.35	kJ/mol	Joback Method
log10ws	-6.72		Crippen Method
logp	6.865		Crippen Method
mcvol	298.770	ml/mol	McGowan Method
pc	1399.59	kPa	Joback Method
tb	1068.53	K	Joback Method
tc	1333.86	K	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C133371978&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions  
**log10ws:** 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

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