

# Paclobutrazol

<b>Other names:</b>	(2RS,3RS)-1-(4-Chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)pentan-3-ol (2S,3S)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)pentan-3-ol (R*,R*)-(.+/-.)-«beta»-[ (4-Chlorophenyl)methyl]-«alpha»-(1,1dimethylethyl)-1H-1,2,4-triazole-1-(4-Chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)-3-pentanol, (2RS,3RS)-1H-1,2,4-Triazole-1-ethanol, beta-[(4-chlorophenyl)methyl]-«alpha»-(1,1-dimethylethyl)-, (R*,R*)-1H-1,2,4-Triazole-1-ethanol, beta-[(4-chlorophenyl)methyl]-«alpha»-(1,1-dimethylethyl)-, (R*,R*)-(.+/-.)-1H-1,2,4-Triazole-1-ethanol, beta-[(4-chlorophenyl)methyl]-«alpha»-(1,1-dimethylethyl)-, (R*,R*)-«alpha»-[ (4-chlorophenyl)methyl]-«alpha»-(1,1-dimethylethyl)-, «alpha»-Paclobutrazol, «alpha»R, «beta»R)-rel- Bonsai Bonzi Bounty flowable Clipper Cultar Duo Xiao Zuo Friazole ICI-PP-333 PP 333 Paclobutrazole Parlay Smarect Trimmit
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<b>Inchi:</b>	«beta»-((4-Chlorophenyl)methyl)-«alpha»-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (R*,R*)-(.+/-.)-C1=SC(=O)c2ccccc2C(C)(C)C(O)C(Cc1ccc(Cl)cc1)n1cncn1
<b>InchiKey:</b>	RMOGWMIKYWRTKW-UHFFFAOYSA-N
<b>Formula:</b>	C15H20CIN3O
<b>SMILES:</b>	CC(C)(C)C(O)C(Cc1ccc(Cl)cc1)n1cncn1
<b>Mol. weight [g/mol]:</b>	293.79
<b>CAS:</b>	76738-62-0

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.75		Crippen Method
logp	3.122		Crippen Method
mcvol	227.040	ml/mol	McGowan Method
rinpol	2128.00		NIST Webbook

tf

433.81

K

Solubility determination  
and thermodynamic  
modeling of pacllobutrazol  
in nine organic solvents  
from T = (278.15 to  
318.15) K and mixing  
properties of solutions

## Sources

**Solubility modelling and preferential solvation of pacllobutrazol in cosolvent McGowan Method:  
McGowan Method:  
1,4-dioxane) + water:  
NIST Webbook:**

<https://www.doi.org/10.1016/j.jct.2017.05.004>  
<http://link.springer.com/article/10.1007/BF02311772>  
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C76738620&Units=SI>  
<http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Solubility determination and thermodynamic modeling of pacllobutrazol in nine organic solvents from T = (278.15 to 318.15) K and mixing properties of solutions:**

<https://www.doi.org/10.1016/j.jct.2016.09.038>

## Legend

<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>rinpolt:</b>	Non-polar retention indices
<b>tf:</b>	Normal melting (fusion) point

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