

 <b>synerzine</b> <sup>TM</sup>	<b>Title:</b>	N304 Product Specification		
	<b>Document #:</b>	02-1006	<b>Rev #:</b>	002
	<b>Status:</b>	ACTIVE	<b>Date Issued:</b>	06/01/2023

### Product Identifiers

Product Name:	DIMETHYLETHYL PYRAZINE, NATURAL
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Synerzine Item #	<b>N304</b>	CAS #	55031-15-7	FEMA #	3149
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### Material Properties

Molecular Formula	C8H12N2	Flash Point (°F, CC)	157
Molecular Weight	136.2	Boiling Point	180°C
Shelf Life (days)	730	Physical State	Liquid

Solubility	Soluble in water and alcohol.
Storage and Stability	Store in fully closed container in cool (~20°C) dry place.
Handling Precautions	Avoid contact of eyes and skin. In case of contact, flush copiously with water. Keep away from heat and flame.

### Specified Critical Limits

Critical Property	Test Method	UOM	Lower Limit	Upper Limit
Color	Visual Analysis	None	Colorless	Pale yellow
Odor	Organoleptic Analysis	None	Roasted, nutty	
Chemical Purity	Gas Chromatography	%	90.0%	100.0%
Density	Density Analysis	g/cm <sup>3</sup> @ 20°C	N/A	N/A
Refractive Index	Refractometric Analysis	nD20	1.495	1.505

### Notes

Total pyrazine content 90% min  
Composition: Natural 2-Ethyl-3,6-dimethylpyrazine (CAS 13360-65-1; FEMA 3149) = 71.5 - 76.5%  
Natural 2-Ethyl-3,5-dimethylpyrazine (CAS 13925-07-0; FEMA 3150) = 10.9 - 21%  
Natural 2-Ethyl-5,6-dimethylpyrazine (CAS 15707-34-3; FEMA 4434) = 9.5 - 12.3%  
Natural 2,5-Diethylpyrazine (CAS# 13238-84-1, no FEMA) = 1.1 - 2.3%  
Natural 2,3-Diethylpyrazine (CAS# 15707-24-1, FEMA 3136) = 0.5-1.0%  
Natural 2-methyl-6-propylpyrazine (CAS# 29444-46-0, no FEMA) = 0.5-1.0%

*This specification was generated electronically, and is therefore unsigned.*

**Synerzine**

Quality Control Dept.

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