



The use of the SIAT spray system within the experimental protocol led to an enhanced rate of decay of hydrogen sulphide within the test facility, consistent with its proposed mode of action.

The action between the active constituents of the SIAT spray and H₂S seems to be first order or higher with respect to H₂S.

Subjectively, the SIAT spray appears to have odour reducing properties in addition to its effect on measurable parameters associated with odour.

SIAT

EXTRACT FROM WRC REPORT

Just some of the gases Airborne 10 can absorb

Pungent Smells

SUBSTANCE	FORMULA	TYPE OF ODOUR
Allyl Thiol	CH ₂ CHCH ₂ SH	Strong garlic, coffee
Ammonia	NH ₃	Sharp pungent
Benzyl Thiol	C ₆ H ₅ CH ₂ SH	Unpleasant, strong
Butylamine	C ₂ H ₅ CHNH ₂ CH ₃	Sour, ammonia like
Chlorine	Cl ₂	Pungent, suffocating
Chloro Phenol	C ₆ H ₄ OCl	Unpleasant, penetrating
Crotyl Mercaptan	CH ₃ CHCHCH ₂ SH	Skunk like
Dibutylamine	(C ₄ H ₉) ₂ NH	Fishy
Diisopropylamine	(C ₃ H ₇) ₂ NH	Fishy
Diphenyl Sulphide	(C ₆ H ₅) ₂ S	Unpleasant
Ethylamine	C ₂ H ₅ NH ₂	Ammonia like
2-Methyl-2-Butanethiol	(CH ₃) ₃ CSH	Skunk, unpleasant
1-Propanethiol	CH ₃ CH ₂ CH ₂ SH	Very strong onion
Pyridine	C ₅ H ₅ N	Nauseating, irritating
Sulphur Dioxide	SO ₂	Pungent, irritating
Toluene	C ₆ H ₅ CH ₃	Benzene like
Triethylamine	(C ₂ H ₅) ₃ N	Ammoniacal, fishy
Xylene	C ₆ H ₄ (CH ₃) ₂	Benzene like

Putrid Smells

SUBSTANCE	FORMULA	TYPE OF ODOUR
Cadaverine	H ₂ N(CH ₂) ₅ NH ₂	Putrid, decaying flesh
1,4-Diaminobutane	NH ₂ (CH ₂) ₄ NH ₂	Putrid, nauseating
Dimethylamine	(CH ₃) ₂ NH	Putrid, fishy
Dimethyl Sulphide	(CH ₃) ₂ S	Decayed vegetables
Ethaneithiol	C ₂ H ₅ SH	Decayed cabbage
Hydrogen Sulphide	H ₂ S	Rotten eggs
Indole	C ₈ H ₆ NH	Fecal, nauseating
Methanethiol	CH ₃ SH	Decayed cabbage
Methylamine	CH ₃ NH ₂	Strong ammoniacal
Pentanethiol	CH ₃ (CH ₂) ₃ CH ₂ SH	Unpleasant, putrid
Skatole	C ₉ H ₉ N	Fecal, nauseating
Thiocresol	CH ₃ C ₆ H ₄ SH	Skunk, rancid
Thiophenol	C ₆ H ₅ SH	Putrid, garlic like

